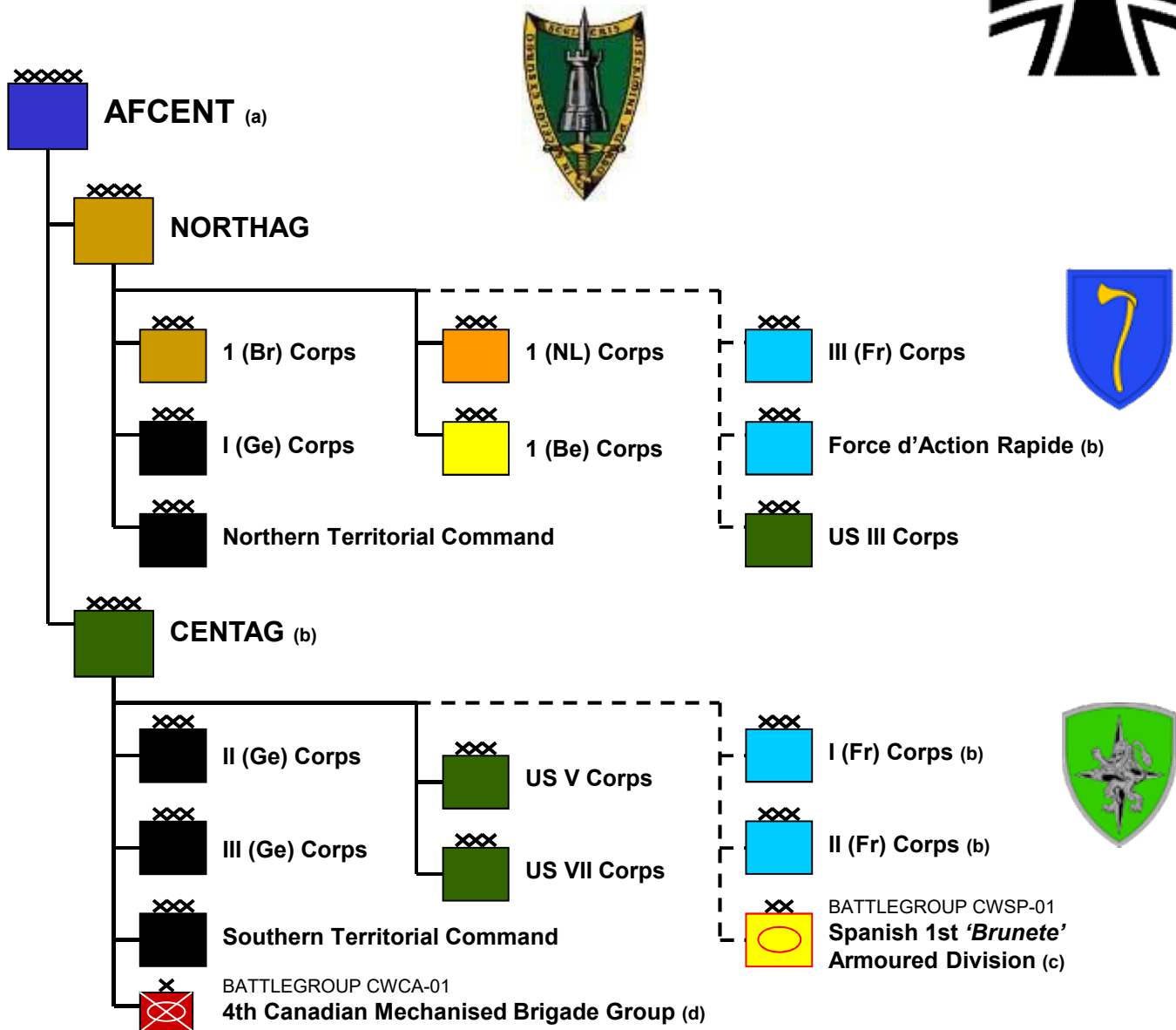


# West German TO&Es 1980-1989 v3.1

By R Mark Davies for *Battlefront: First Echelon*

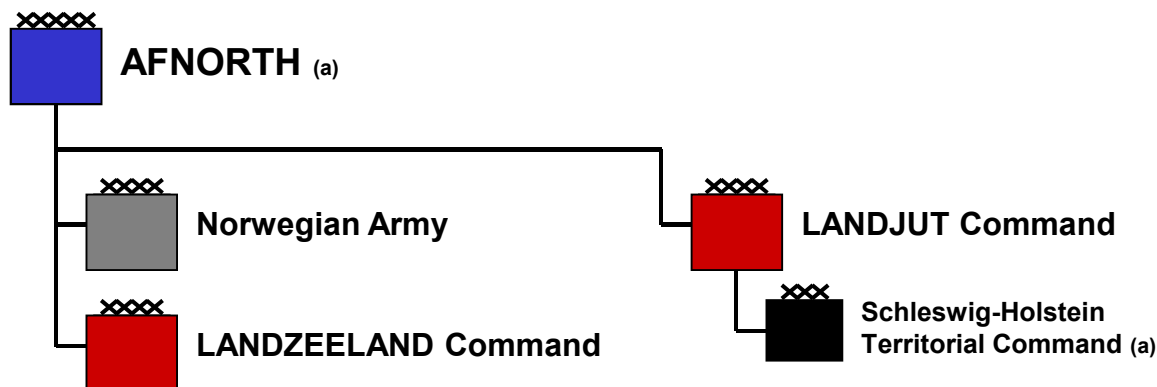


(a) This diagram shows the distribution of the main West German combat formations in Allied Forces Central (AFCENT) Command and their relationship to other NATO Allied formations such as Northern Army Group (NORTHAG) and Central Army Group (CENTAG). There was one other corps-sized territorial formation east of the River Elbe, but that came under AFNORTH Command and is shown on the next page.

(b) There was serious consideration, particularly during the late 1980s, given to forming a Southern Army Group (SOUTHAG) in southern Germany, with the French 1st Army HQ adopting the role of HQ SOUTHAG. Some sources suggest that this formation would have consisted of the II (Ge) Corps and elements of the Southern Territorial Command, plus at least one French Corps and probably one of the two US Corps, plus the Spanish 'Brunete' Armoured Division. Other sources suggest that both French Corps would have gone to SOUTHAG, with both US Corps remaining in CENTAG. This may also have involved the French Force d'Action Rapide (FAR), though that had previously been slated to support NORTHAG. A large-scale exercise was held to test this concept in 1987.

(c) There was a contingency plan for the Spanish 1st 'Brunete' Armoured Division to march up through France to reinforce CENTAG or SOUTHAG. However, no exercises along the lines of REFORGER were held to test this plan.

(d) The 4th Canadian Mechanised Brigade Group (4 CMBG) normally came under the command of US VII Corps, though did frequently come under command of II (Ge) Corps during exercises. From 1988, the Canadian commitment to the defence of West Germany was expanded to a full division (1st Canadian Infantry Division) of two brigades. However, 4 CMBG remained the only Canadian formation permanently deployed in Germany, while 1 CMBG and divisional HQ and support elements would have to reinforce during the build-up to war.



## Other Bundeswehr (Heer) Units



BATTLEGROUP CWWG-13

**Panzer Training Unit Castlemartin (b)**



BATTLEGROUP CWWG-26

**x3 Security Battalion (c)**



**x5 Bo-105M VBH Observation Helicopter (d) CWWG-37**



**x6 Alouette II Observation Helicopter (d) CWWG-77**



(a) The considerable military obstacle of the River Elbe meant that it made more military sense for the West German Schleswig-Holstein Territorial Command to come under the command of Allied Forces Northern (AFNORTH) Command and the Danish-led LANDJUT Command. The LANDJUT Command, which would also include British and US formations, was tasked in wartime with deploying forward into West Germany, to defend the approaches to Denmark and Hamburg.

(b) The Panzer Training Unit at Castlemartin in West Wales, UK, was a full Panzer Battalion tasked with providing advanced gunnery training to Bundeswehr tank crews. The Welsh Atlantic coast allowed them to fire 105mm and 120mm APFSDS ammunition, which was not possible at any firing-range in Germany, due to the colossal danger area created by the extremely long range of this type of ammunition. The unit was equipped with Leopard 1 variants for most of the 1980s and in wartime was meant to provide replacement crews and tanks for the units stationed in West Germany. However, in the event of a surprise Soviet attack preventing movement to Germany, it may have been used to assist with defence of the UK.

(c) These Security Battalions each had **x4** Companies. Two battalions included **x1** 20mm AA Gun section in each company. The third battalion was designated as the 'Guard Battalion' and had a secondary ceremonial role. It had companies drawn from all the armed services and also had an integral Light AA Company, organised as ME CWWG-26, with **x4** 20mm AA Gun sections.

(d) These helicopters belong to the army aviation training school and test unit.



# I (Ge) Corps (NORTHAG)



- BATTLEGROUP CWWG-01  
**1. Panzer-Division**
- BATTLEGROUP CWWG-06  
**Panzergrenadier-Brigade 1**
  - BATTLEGROUP CWWG-05  
**Panzer-Brigade 2**
  - BATTLEGROUP CWWG-05  
**Panzer-Brigade 3 'Weser-Leine'**



- BATTLEGROUP CWWG-01  
**3. Panzer-Division (b)**
- BATTLEGROUP CWWG-06  
**Panzer-Brigade 7**
  - BATTLEGROUP CWWG-05  
**Panzer-Brigade 8 'Lüneberg'**
  - BATTLEGROUP CWWG-05  
**Panzer-(Lehr)-Brigade 9**



- BATTLEGROUP CWWG-01  
**7. Panzer-Division**
- BATTLEGROUP CWWG-06  
**Panzer-Brigade 19 'Münsterland'**
  - BATTLEGROUP CWWG-05  
**Panzer-Brigade 20 'Markisches-Sauerland'**
  - BATTLEGROUP CWWG-05  
**Panzer-Brigade 21 'Lipperland'**



- BATTLEGROUP CWWG-02  
**11. Panzergrenadier-Division**
- BATTLEGROUP CWWG-06  
**Panzer-Brigade 31**
  - BATTLEGROUP CWWG-06  
**Panzer-Brigade 32**
  - BATTLEGROUP CWWG-05  
**Panzer-Brigade 33 'Celle'**



- BATTLEGROUP CWWG-11  
**Luftlande-Brigade 27**



- BATTLEGROUP CWWG-24  
**x4 Pioneer Battalion**
- x1 Amphibious Pioneer Battalion**
- x2 Floating Bridge Battalion**
- x1 Tactical Missile Battalion (Lance) (e)**
- x1 NBC Defence Battalion (c)**
- BATTLEGROUP CWWG-26  
**Sicherungs-Bataillon 100**
- Manoeuvre Element CWWG-29  
**Fernspähkompanie 100**
- Manoeuvre Element CWWG-17  
**x6 SAM Battery**
- Manoeuvre Element CWWG-24  
**x6 Light SAM Battery**
- Manoeuvre Element CWWG-16  
**x8 Flak Battery**
- x6 Bo-105M VBH Observation Helicopter CWWG-37**
- x6 Alouette II Observation Helicopter CWWG-77**
- x28 Bo-105P PAH-1 Attack Helicopter (a)CWWG-38**
- x16 CH-53G Transport Helicopter CWWG-40**
- x24 UH-1D Utility Helicopter CWWG-39**
- Manoeuvre Element CWWG-26  
**x4 Aviation Protection Squadron (Flak) (d)**
- Manoeuvre Element CWWG-27  
**x4 Aviation Protection Squadron (d)**

(a) Late 1980s: The Bo-105P PAH-1 Attack Helicopters may upgrade to HOT 2 ATGMs (see card).

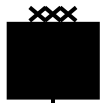
(b) In wartime, 3. Panzer-Division was to be attached to the 1 (Netherlands) Corps.

(c) The role of the NBC Defence Battalion would normally fall outside the scope of 'Battlefront: Modern' games, though it's worth mentioning that three of the battalion's four companies had **x4 FK-20-2** Twin 20mm Flak Guns (CWWG-52) apiece and would therefore carry out rear-area AA defence while simultaneously monitoring NBC-detection equipment.

(d) These units were for the protection of helicopter forward operating bases. Each Aviation Battalion and the Aviation Regiment HQ had a squadron each of Infantry and Flak.

(e) The Tactical Missile Battalion included large numbers of security personnel and 20mm flak guns.





## II (Ge) Corps (CENTAG)



BATTLEGROUP CWWG-01

### 10. Panzer-Division



BATTLEGROUP CWWG-06  
**Panzergrenadier-Brigade 28**



BATTLEGROUP CWWG-05  
**Panzer-Brigade 29**



BATTLEGROUP CWWG-05  
**Panzer-Brigade 30**



BATTLEGROUP CWWG-02

### 4. Panzer-Grenadier-Division



BATTLEGROUP CWWG-06  
**Panzer-Grenadier Brigade 10**



BATTLEGROUP CWWG-06  
**Panzer-Grenadier Brigade 11 'Bayerwald'**



BATTLEGROUP CWWG-05  
**Panzer Brigade 12**



BATTLEGROUP CWWG-04

### 1. Gebirgsjäger-Division



BATTLEGROUP CWWG-06  
**Panzer-Grenadier-Brigade 22 'Oberland'**



BATTLEGROUP CWWG-10  
**Gebirgsjäger-Brigade 23**



BATTLEGROUP CWWG-05  
**Panzer-Brigade 24 'Niederbayern'**



BATTLEGROUP CWWG-06  
**Heimatschutz-Brigade 56 (h)**



### 1. Luftlande-Division (-) (b)



BATTLEGROUP CWWG-11  
**Luftlande-Brigade 25**



Fire Support Element CWWG-14  
**Luftlande-Artillerie-Batterie 9 (d)**



BATTLEGROUP CWWG-24  
**x4 Pioneer Battalion**



**x1 Amphibious Pioneer Battalion**



**x2 Floating Bridge Battalion**



**x1 NBC Defence Battalion (f)**



**x1 Tactical Missile Battalion (Lance) (g)**



BATTLEGROUP CWWG-26  
**Sicherungs-Bataillon 200**



Manoeuvre Element CWWG-29  
**Fernspähkompanie 200**



Manoeuvre Element CWWG-17  
**x6 SAM Battery**



Manoeuvre Element CWWG-24  
**x6 Light SAM Battery**



Manoeuvre Element CWWG-16  
**x8 Flak Battery**



**x6 Bo-105M VBH Observation Helicopter CWWG-37**



**x6 Alouette II Observation Helicopter (e) CWWG-77**



**x28 Bo-105P PAH-1 Attack Helicopter (a) CWWG-38**



**x16 CH-53G Transport Helicopter CWWG-40**



**x24 UH-1D Utility Helicopter CWWG-39**



Manoeuvre Element CWWG-26  
**x4 Aviation Protection Squadron (Flak) (c)**



Manoeuvre Element CWWG-27  
**x4 Aviation Protection Squadron (c)**

(d) The Airlanding Artillery Battery would normally be assigned to ACE Mobile Force (Land), along with a Fallschirmjäger Battalion from III Corps.

(e) These Alouette II helicopters were replaced at some point during the 1980s with:

Bo-105 VBH Observation Helicopters CWWG-37

(a) Late 1980s: The Bo-105P PAH-1 Attack Helicopters may upgrade to HOT 2 ATGMs (see card).

(b) 1. Fallschirmjäger-Division was merely an administrative formation. The three constituent brigades were distributed to the three regular Army Corps. The only divisional combat support asset was a single Airlanding Artillery Battery (organised the same as a Mountain Battery (FSE CWWG-14)), plus an Airborne Artillery Regiment HQ that would coordinate the activities of any other artillery units assigned to airborne operations.

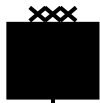
(c) These units were for the protection of helicopter forward operating bases. Each Aviation Battalion and the Aviation Regiment HQ had a squadron each of Infantry and Flak.

(f) The role of the NBC Defence Battalion would normally fall outside the scope of 'Battlefront: Modern' games, though it's worth mentioning that three of the battalion's four companies had **x4 FK-20-2** Twin 20mm Flak Guns (CWWG-52) apiece and would therefore carry out rear-area AA defence while simultaneously monitoring NBC-detection equipment.

(g) The Tactical Missile Battalion included large numbers of security personnel and 20mm flak guns.

(h) In wartime, the 56th Brigade would be assigned from the Southern Territorial Command.





## III (Ge) Corps (CENTAG)



BATTLEGROUP CWWG-01

### 5. Panzer-Division



BATTLEGROUP CWWG-06

#### Panzergrenadier-Brigade 13



BATTLEGROUP CWWG-05

#### Panzer-Brigade 14 'Hessischer Löwe'



BATTLEGROUP CWWG-05

#### Panzer-Brigade 15 'Westerwald'



BATTLEGROUP CWWG-01

### 12. Panzer-Division (b)



BATTLEGROUP CWWG-06

#### Panzer-Brigade 34



BATTLEGROUP CWWG-05

#### Panzer-Brigade 35



BATTLEGROUP CWWG-05

#### Panzer-Brigade 36



BATTLEGROUP CWWG-02

### 2. Panzergrenadier-Division



BATTLEGROUP CWWG-06

#### Panzer-Brigade 4



BATTLEGROUP CWWG-06

#### Panzer-Brigade 5 'Kurhessen'



BATTLEGROUP CWWG-05

#### Panzer-Brigade 6



BATTLEGROUP CWWG-11

#### Luftlande-Brigade 26 'Saarland' (d)



BATTLEGROUP CWWG-24

#### x4 Pioneer Battalion



x1 Amphibious Pioneer Battalion



x1 Floating Bridge Battalion



x2 NBC Defence Battalion (e)



x1 Tactical Missile Battalion (Lance) (f)



BATTLEGROUP CWWG-26

#### Sicherungs-Bataillon 300



Manoeuvre Element CWWG-29

#### Fernspähkompanie 300



Manoeuvre Element CWWG-17

#### x6 SAM Battery



Manoeuvre Element CWWG-24

#### x6 Light SAM Battery



Manoeuvre Element CWWG-16

#### x8 Flak Battery



x6 Bo-105M VBH Observation Helicopter CWWG-37



x6 Alouette II Observation Helicopter CWWG-77



x28 Bo-105P PAH-1 Attack Helicopter (a) CWWG-38



x16 CH-53G Transport Helicopter CWWG-40



x24 UH-1D Utility Helicopter CWWG-39



Manoeuvre Element CWWG-26

#### x4 Aviation Protection Squadron (Flak) (c)



Manoeuvre Element CWWG-27

#### x4 Aviation Protection Squadron (c)

(a) Late 1980s: The Bo-105P PAH-1 Attack Helicopters may upgrade to HOT 2 ATGMs (see card).

(b) In wartime, 12. Panzer-Division was to be attached to the US VII Corps.

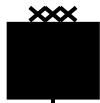
(c) These units were for the protection of helicopter forward operating bases. Each Aviation Battalion and the Aviation Regiment HQ had a squadron each of Infantry and Flak.

(d) Luftlande-Brigade 26 was tasked with providing a Fallschirmjäger Battalion to ACE Mobile Force (Land). This would be joined by an Airlanding Battery from II Corps and other support elements.

(e) The role of the NBC Defence Battalions would normally fall outside the scope of 'Battlefront: Modern' games, though it's worth mentioning that three of the battalion's four companies had x4 FK-20-2 Twin 20mm Flak Guns (CWWG-52) apiece and would therefore carry out rear-area AA defence while simultaneously monitoring NBC-detection equipment.

(f) The Tactical Missile Battalion included large numbers of security personnel and 20mm flak guns.





# Schleswig-Holstein Territorial Command (AFNORTH) (a)



BATTLEGROUP CWWG-02

## 6. Panzergrenadier-Division



BATTLEGROUP CWWG-06

**Panzergrenadier-Brigade 16**  
**'Herzogtum Lauenberg'**



BATTLEGROUP CWWG-06

**Panzergrenadier-Brigade 17**



BATTLEGROUP CWWG-05

**Panzer-Brigade 18 'Holstein'**



BATTLEGROUP CWWG-03

## I. Wehrbereichskommando (b)



BATTLEGROUP CWWG-07

**Heimatschütz-Brigade 51**



BATTLEGROUP CWWG-08

**Heimatschütz-Brigade 61**



BATTLEGROUP CWWG-09

**Heimatschütz-Regiment 71**



BATTLEGROUP CWWG-09

**Heimatschütz-Regiment 81**



BATTLEGROUP CWWG-29

**VBK 10**

(a) Somewhat unusually, Schleswig-Holstein Territorial Command reported to Allied Forces North (AFNORTH). This was entirely down to Geography, as the Schleswig-Holstein Territorial Command would be fighting with its back to Denmark and amalgamated into the German-Danish LANDJUT Command. Territorial Commands would probably have been given Corps numbers in wartime.

(b) In wartime these Territorial formations would probably have been re-designated as numbered Territorial Infantry Divisions.

(c) These units were for the protection of helicopter forward operating bases. Each Aviation Battalion had a squadron each of Infantry and Flak, while the Aviation Regiment HQ had the independent platoon shown here.

(d) The Aviation Regiment belonged to 6. Panzergrenadier-Division in peacetime, but in wartime would mostly become a Corps asset and some would also be assigned to LANDJUT (e.g. part of the UH-1D battalion was to be assigned to the British 1st Infantry Brigade). There also appears to have been a reservist helicopter squadron present in Schleswig-Holstein, though details are unclear. May therefore add:

**x10 Alouette II Observation Helicopter** CWWG-77

(e) The role of the NBC Defence Battalions would normally fall outside the scope of 'Battlefront: Modern' games, though it's worth mentioning that three of the battalion's four companies had **x4 FK-20-2 Twin 20mm Flak Guns** (CWWG-52) apiece and would therefore carry out rear-area AA defence while simultaneously monitoring NBC-detection equipment.

(f) Late 1980s: The Bo-105P PAH-1 Attack Helicopters may upgrade to HOT 2 ATGMs (see card).



BATTLEGROUP CWWG-24

**x4 Pioneer Battalion**



**x1 Amphibious Pioneer Battalion**



**x2 Floating Bridge Battalion**



**x1 NBC Defence Battalion (e)**



Fire Support Element CWWG-03

**Artillerie-Bataillon 630 (FH-70)**



Fire Support Element CWWG-05

**Artillerie-Bataillon 640 (M110)**



**Rakete-Artillerie-Bataillon 650 (LARS-2)**



BATTLEGROUP CWWG-26

**Sicherungs-Bataillon 610**



Manoeuvre Element CWWG-15

**x3 Panzer Flak Battery**



Manoeuvre Element CWWG-16

**x4 Flak Battery**



Manoeuvre Element CWWG-17

**x3 SAM Battery**



Manoeuvre Element CWWG-24

**x3 Light SAM Battery**



**x14 Bo-105P PAH-1 Attack Helicopter (df) CWWG-38**



**x12 UH-1D Utility Helicopter (d) CWWG-39**



**x6 Bo-105M VBH Observation Heli (d) CWWG-37**



Manoeuvre Element CWWG-26

**x1 Aviation Protection Squadron (Flak) (cd)**



Manoeuvre Element CWWG-27

**x1 Aviation Protection Squadron (cd)**



Manoeuvre Element CWWG-28

**x1 Aviation Protection Platoon (cd)**



# Northern Territorial Command (NORTHAG) (ac)



## BATTLEGROUP CWWG-03 II. Wehrbereichskommando (b)



BATTLEGROUP CWWG-07  
**Heimatschütz-Brigade 52**

BATTLEGROUP CWWG-08  
**Heimatschütz-Brigade 62**

BATTLEGROUP CWWG-09  
**Heimatschütz-Regiment 72**

BATTLEGROUP CWWG-09  
**Heimatschütz-Regiment 82**

BATTLEGROUP CWWG-29  
**VBK 20**

BATTLEGROUP CWWG-29  
**VBK 22**

BATTLEGROUP CWWG-29  
**VBK 23**

BATTLEGROUP CWWG-29  
**VBK 24**

BATTLEGROUP CWWG-29  
**VBK 25**

x1 Amphibious Pioneer Battalion

x2 Floating Bridge Battalion

BATTLEGROUP CWWG-26  
x1 Security Battalion

Up to x10 Alouette II OH (c)

CWWG-77

(a) Territorial Commands would probably have been given corps numbers in wartime. Northern Territorial Command reported to the British-led NORTHAG in North-West Germany.

(b) In wartime these would probably have been re-designated as numbered Territorial Infantry Divisions.

(c) While a reservist aviation battalion is listed, details are absent as to what it actually consisted of, so the Alouettes shown here are a guess.



## BATTLEGROUP CWWG-03 III. WBK (b)



BATTLEGROUP CWWG-07  
**Heimatschütz-Brigade 53**

BATTLEGROUP CWWG-08  
**Heimatschütz-Brigade 63**

BATTLEGROUP CWWG-09  
**Heimatschütz-Regiment 73**

BATTLEGROUP CWWG-09  
**Heimatschütz-Regiment 83**

BATTLEGROUP CWWG-09  
**Heimatschütz-Regiment 93**

BATTLEGROUP CWWG-29  
**VBK 31**

BATTLEGROUP CWWG-29  
**VBK 32**

BATTLEGROUP CWWG-29  
**VBK 33**

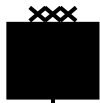
BATTLEGROUP CWWG-29  
**VBK 34**

BATTLEGROUP CWWG-29  
**VBK 35**



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## Southern Territorial Command (CENTAG) (ac)



BATTLEGROUP CWWG-03

### IV. WBK (b)



BATTLEGROUP CWWG-07

Heimatschutz-Brigade 54



BATTLEGROUP CWWG-08

Heimatschutz-Brigade 64



BATTLEGROUP CWWG-09

Heimatschutz-Regiment 74



BATTLEGROUP CWWG-09

Heimatschutz-Regiment 84



BATTLEGROUP CWWG-09

Heimatschutz-Regiment 94



BATTLEGROUP CWWG-29

VBK 41



BATTLEGROUP CWWG-29

VBK 42



BATTLEGROUP CWWG-29

VBK 43



BATTLEGROUP CWWG-29

VBK 44



BATTLEGROUP CWWG-29

VBK 45



BATTLEGROUP CWWG-29

VBK 46



BATTLEGROUP CWWG-29

VBK 47



BATTLEGROUP CWWG-03

### V. WBK (b)



BATTLEGROUP CWWG-07

Heimatschutz-Brigade 55



BATTLEGROUP CWWG-08

Heimatschutz-Brigade 65



BATTLEGROUP CWWG-09

Heimatschutz-Regiment 75



BATTLEGROUP CWWG-09

Heimatschutz-Regiment 85



BATTLEGROUP CWWG-29

VBK 51



BATTLEGROUP CWWG-29

VBK 52



BATTLEGROUP CWWG-29

VBK 53



BATTLEGROUP CWWG-29

VBK 54



BATTLEGROUP CWWG-03

### VI. WBK (b)



BATTLEGROUP CWWG-07

Heimatschutz-Brigade 56 (c)



BATTLEGROUP CWWG-08

Heimatschutz-Brigade 66



BATTLEGROUP CWWG-09

Heimatschutz-Regiment 76



BATTLEGROUP CWWG-09

Heimatschutz-Regiment 86



BATTLEGROUP CWWG-09

Heimatschutz-Regiment 96



BATTLEGROUP CWWG-29

VBK 61



BATTLEGROUP CWWG-29

VBK 62



BATTLEGROUP CWWG-29

VBK 63



BATTLEGROUP CWWG-29

VBK 64



BATTLEGROUP CWWG-29

VBK 65



BATTLEGROUP CWWG-29

VBK 66



BATTLEGROUP CWWG-29

VBK 67



BATTLEGROUP CWWG-24

x1 Pioneer Battalion



x5 Floating Bridge Battalion



BATTLEGROUP CWWG-26

x2 or x3 Security Battalion

(a) Territorial Commands would probably have been given corps numbers in wartime. Southern Territorial Command reported to the US-led CENTAG in South-West Germany, though might have been split in two if it were decided to form a SOUTHAG during the build-up to war.

(b) In wartime these would probably have been re-designated as numbered Territorial Infantry Divisions.

(c) In wartime, the 56th Brigade would instead be assigned to 1. Gebirgsjäger-Division. It was considerably better-equipped than other Heimatschutz Brigades.





## BATTLEGROUP CWWG-01 Panzer Division 1980s

### BATTLEGROUPS



BG CWWG-05  
**x2 Panzer Brigade**



BG CWWG-06  
**x1 Panzergrenadier Brigade**



BG CWWG-18  
**x2 Jäger Battalion**



BG CWWG-22  
**x1 Panzer Reconnaissance Battalion**



BG CWWG-24  
**x1 Pioneer Battalion**



BG CWWG-26  
**x1 Security Battalion**

### MANOEUVRE ELEMENTS



ME CWWG-15  
**x6 Panzer Flak Battery**



ME CWWG-24  
**x6 Light SAM Battery**



ME CWWG-28  
**x1 Aviation Protection Platoon (b)**



ME CWWG-30  
**x1 Artillery Regiment Escort Battery (c)**



ME CWWG-31  
**x3 Artillery Battalion Escort Platoon (c)**



ME CWWG-32  
**x1 Divisional NBC Defence Company (d)**

### FIRE SUPPORT ELEMENTS



FSE CWWG-03  
**x1 Field Artillery Battalion**



FSE CWWG-05  
**x1 SP Heavy Artillery Battalion**



FSE CWWG-07  
**x1 Rocket Artillery Battalion**

### ORGANIC AVIATION ASSETS



**x10 Alouette II Observation Helicopter CWWG-77 (a)**



(a) Late 1980s: The divisions of II Corps replaced their Alouettes with:

Bo-105M VBH Observation Helicopter

CWWG-37

(b) This unit was for the protection of helicopter forward operating bases.

(c) These units are for the close defence of the divisional Artillery Regiment HQ and the individual artillery battalions.

(d) The role of the divisional NBC Defence Company would not normally fall within the scope of 'Battlefront: Modern' games, however, the company's NBC Warfare monitoring teams filled a dual role, in that they would deploy 20mm AA guns alongside the NBC monitoring equipment and would therefore carry out rear-area AA defence while simultaneously monitoring NBC-detection equipment. It's also worth mentioning that the West Germans were second-to-none when it came to NBC Defence and no other NATO ally had such an extensive array of dedicated NBC Defence units. This deficiency was laid bare during the Gulf War of 1990/91, leading the UK and USA to rapidly buy specialist NBC Warfare Fuchs vehicles from Germany for the campaign.





## BATTLEGROUP CWWG-02 Panzergrenadier Division 1980s

### BATTLEGROUPS



BG CWWG-05  
**x1 Panzer Brigade**



BG CWWG-06  
**x2 Panzergrenadier Brigade**



BG CWWG-18  
**x2 Jäger Battalion (b)**

Alternative:



BG CWWG-17  
**x2 Heavy Jäger Battalion (b)**



BG CWWG-22  
**x1 Panzer Reconnaissance Battalion**



BG CWWG-24  
**x1 Pioneer Battalion**



BG CWWG-26  
**x1 Security Battalion**

### MANOEUVRE ELEMENTS



ME CWWG-15  
**x6 Panzer Flak Battery**



ME CWWG-24  
**x6 Light SAM Battery**



ME CWWG-28  
**x1 Aviation Protection Platoon (c)**



ME CWWG-30  
**x1 Artillery Regiment Escort Battery (d)**



ME CWWG-31  
**x3 Artillery Battalion Escort Platoon (d)**



ME CWWG-32  
**x1 Divisional NBC Defence Company (e)**

### FIRE SUPPORT ELEMENTS



FSE CWWG-03  
**x1 Field Artillery Battalion**



FSE CWWG-05  
**x1 SP Heavy Artillery Battalion**



FSE CWWG-07  
**x1 Rocket Artillery Battalion**

### ORGANIC AVIATION ASSETS



**x10 Alouette II Observation Helicopter CWWG-77 (af)**



(a) Late 1980s: The divisions of II Corps replaced their Alouettes with:

Bo-105M VBH Observation Helicopter

CWWG-37

(b) Most Divisions had motorised Jäger Battalions (BG CWWG-18), though 6th Panzergrenadier Division had **x2** Heavy Jäger Battalions (BG CWWG-17).

(c) This unit was for the close protection of helicopter forward operating bases.

(d) These units are for the close protection of the division's Artillery Regiment HQ and the individual artillery battalions.

(e) The role of the divisional NBC Defence Company would not normally fall within the scope of 'Battlefront: Modern' games, however, the company's NBC Warfare monitoring teams filled a dual role, in that they would deploy 20mm AA guns alongside the NBC monitoring equipment and would therefore carry out rear-area AA defence while simultaneously monitoring NBC-detection equipment. It's also worth mentioning that the West Germans were second-to-none when it came to NBC Defence and no other NATO ally had such an extensive array of dedicated NBC Defence units. This deficiency was laid bare during the Gulf War of 1990/91, leading the UK and USA to rapidly buy specialist NBC Warfare Fuchs vehicles from Germany for the campaign.

(f) 6. Panzergrenadier-Division in Schleswig-Holstein did not have an aviation squadron as shown here. Instead, it had all the aviation assets shown under the Schleswig-Holstein Territorial Command orbat, though some of these would be assigned to Territorial and LANDJUT units.



**BATTLEGROUP CWWG-03**  
**Territorial Infantry Division 1980s**  
**(Wehrbereichskommando)**

**BATTLEGROUPS**

 BG CWWG-07  
**x1 50-Series Heimatschütz Brigade (c)**

 BG CWWG-08  
**x1 60-Series Heimatschütz Brigade**

 BG CWWG-09  
**x2 or x3 Heimatschütz Regiment (a)**

 BG CWWG-29  
**x1 to x7 District Defence Command ('VBK') (d)**

 BG CWWG-24  
**x2 to x4 Pioneer Battalion**

 BG CWWG-26  
**Up to x1 Security Battalion (e)**

**MANOEUVRE ELEMENTS**

 ME CWWG-16  
**Up to x9 Flak Company (b)**

 ME CWWG-30  
**x1 Artillery Regiment Escort Battery (bf)**

 ME CWWG-31  
**x2 to x3 Artillery Battalion Escort Platoon (bf)**

**FIRE SUPPORT ELEMENTS**

 FSE CWWG-03  
**Up to x1 Field Artillery Battalion (b)**

 FSE CWWG-05  
**Up to x1 SP Heavy Artillery Battalion (b)**

 FSE CWWG-07  
**Up to x1 Rocket Artillery Battalion (b)**



(a) IV. & VI. Wehrbereichskommando (WBK) each had three such regiments. The others each had two. The Heimatschütz were responsible for mobile defence within their area of responsibility.

(b) Only the Schleswig-Holstein 'Territorial-Kommando' had these divisional assets permanently attached. The other formations would presumably be allocated such units from regular Corps assets in wartime.

(c) The 50-series brigade belonging to VI. WBK (56th Brigade) was uniquely equipped with regular equipment, such as Leopards and Marders. However, it was assigned to reinforce the 1st Gebirgsjäger Division in wartime (see BG CWWG-04).

(d) Each District Defence Command (*Verteidigungsbezirkskommando* or 'VBK') was responsible for maintaining civil defence within their area of responsibility, as well as static defence of specific locations and lines of communication and liaising between NATO formations and the local civil authority.

(e) Each Territorial Command actually had a collection of independent Security Companies and Platoons rather than a single, unified Security Battalion.

(f) These units are for the close defence of the divisional Artillery Regiment HQ and individual artillery battalions.







BATTLEGROUP CWWG-04

## Gebirgsjäger (Mountain) Division 1980s

### BATTLEGROUPS



BG CWWG-05

**x1 Panzer Brigade**



BG CWWG-06

**x1 Panzergrenadier Brigade**



BG CWWG-10

**x1 Gebirgsjäger Brigade**



BG CWWG-07

**x1 50-Series Heimatschutz Brigade (a)**



BG CWWG-23

**x1 Panzer Reconnaissance Battalion**



BG CWWG-18

**x2 Jäger Battalion**



BG CWWG-26

**x1 Security Battalion**



BG CWWG-24

**x1 Pioneer Battalion**

### MANOEUVRE ELEMENTS



ME CWWG-15

**x6 Panzer Flak Company**



ME CWWG-24

**x6 Light SAM Battery**



ME CWWG-28

**x1 Aviation Protection Platoon (b)**



ME CWWG-30

**x1 Artillery Regiment Escort Battery (c)**



ME CWWG-31

**x3 Artillery Battalion Escort Platoon (c)**



ME CWWG-32

**x1 Divisional NBC Defence Company (d)**

### FIRE SUPPORT ELEMENTS



FSE CWWG-03

**x1 Field Artillery Battalion**



FSE CWWG-05

**x1 SP Heavy Artillery Battalion**



FSE CWWG-07

**x1 Rocket Artillery Battalion**

### ORGANIC AVIATION ASSETS



**x10 Alouette II Observation Helicopter (e) CWWG-77**



(a) The 56th Territorial Brigade was unique among Territorial units, in that it was assigned to a regular formation and had the equipment (Leopards and Marders) to match. However, it was assigned administratively to the VI. WBK, filling the 50-Series Brigade slot. It would therefore have left a large gap in that formation when assigned to the 1st Gebirgsjäger Division; essentially leaving the VI. WBK without an armoured reserve.

(b) This unit was for the protection of helicopter forward operating bases.

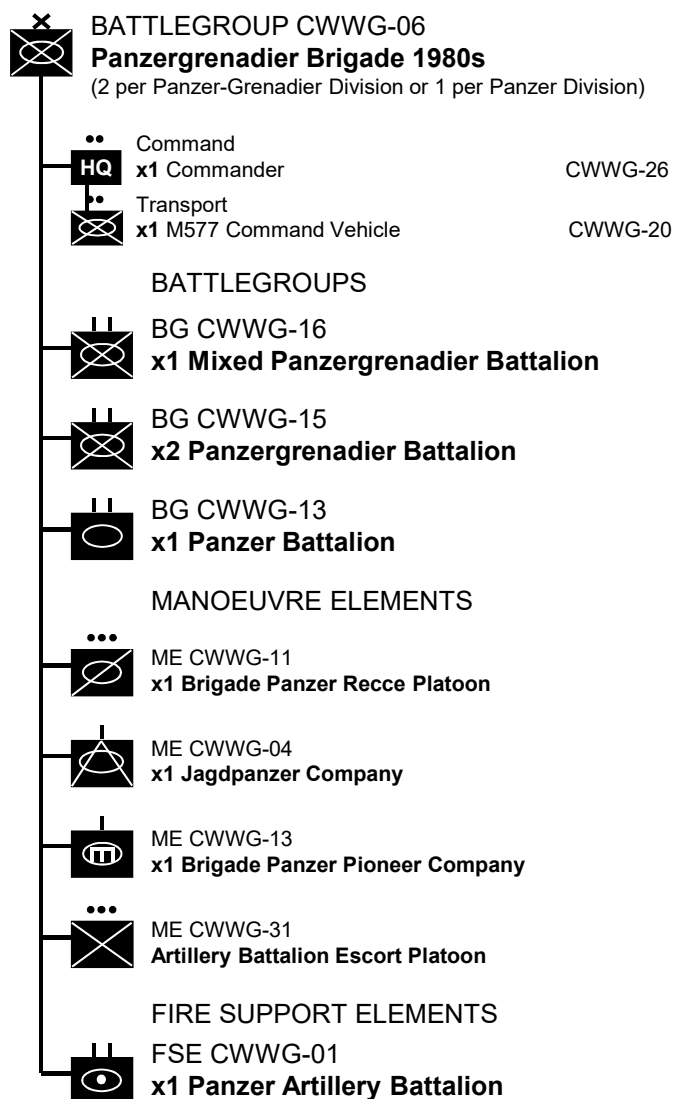
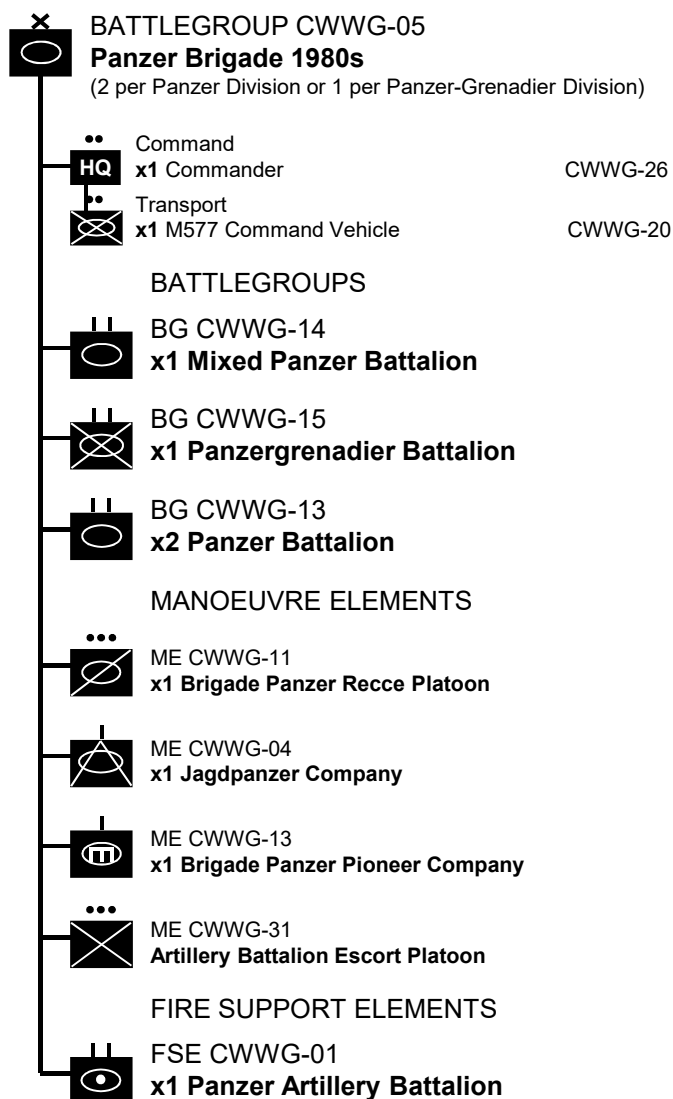
(c) These units were for the close defence of the divisional Artillery Regiment HQ and the individual artillery battalions.

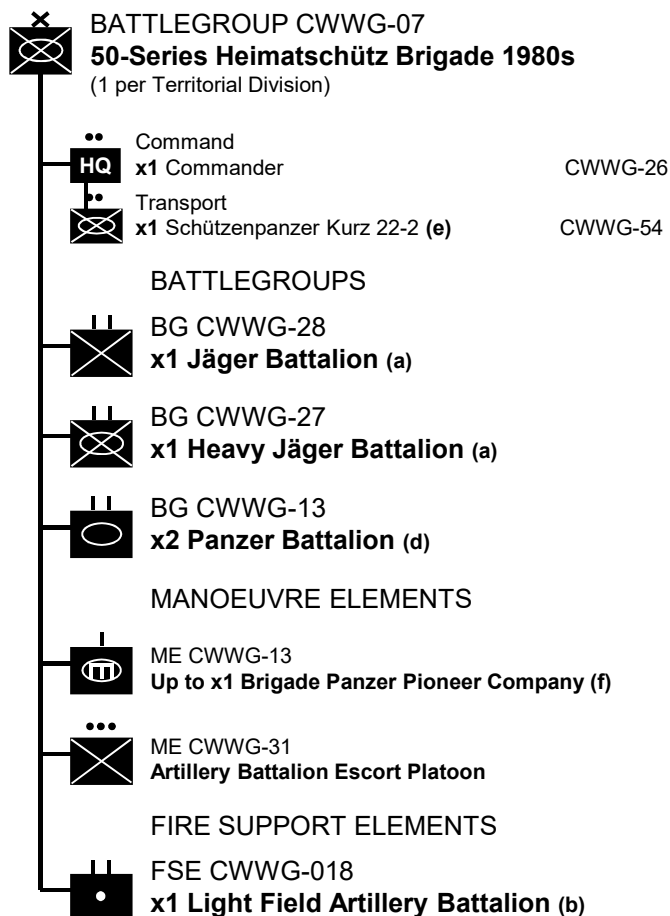
(d) The role of the divisional NBC Defence Company would not normally fall within the scope of 'Battlefront: Modern' games, however, the company's NBC Warfare monitoring teams filled a dual role, in that they would deploy 20mm AA guns alongside the NBC monitoring equipment and would therefore carry out rear-area AA defence while simultaneously monitoring NBC-detection equipment. It's also worth mentioning that the West Germans were second-to-none when it came to NBC Defence and no other NATO ally had such an extensive array of dedicated NBC Defence units. This deficiency was laid bare during the Gulf War of 1990/91, leading the UK and USA to rapidly buy specialist NBC Warfare Fuchs vehicles from Germany for the campaign.

(e) Late 1980s: Replace the Alouettes with:  
Bo-105M VBH Observation Helicopter

CWWG-37







(a) In 56th Heimatschutz Brigade (VI. WBK/1st Gebirgsjäger Division), replace Jäger Battalion and Heavy Jäger Battalion with:  
**x2 Panzergrenadier Battalion (BG CWWG-15)**

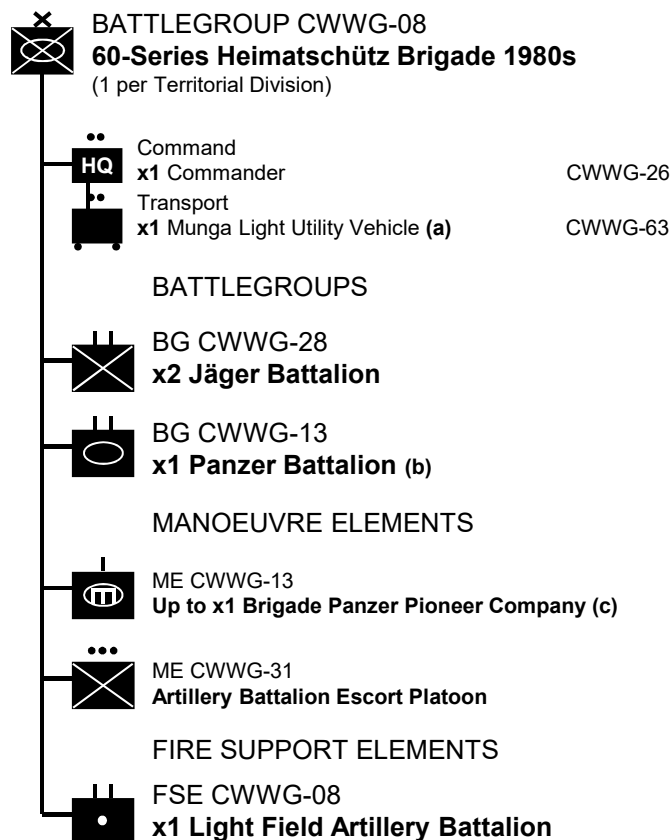
(b) In 56th Heimatschutz Brigade, replace Light Field Artillery Battalion with:  
**x1 Panzer Artillery Battalion (FSE CWWG-01)**

(c) In 56th Heimatschutz Brigade, add:  
**x1 Jagdpanzer Company (ME CWWG-02)**  
**x1 Panzer Pioneer Company (ME CWWG-13)**

(d) Territorial Panzer Battalions were generally equipped with M48A2GA2 Patton tanks. However, some M48A2C Pattons remained in service until 1983 and the 56th Brigade was even lucky enough to be equipped with Leopard 1. Some sources suggest that as Leopard 2 came into service with regular units, Leopard 1s were 'cascaded' down to the 50-Series Heimatschutz Brigades, so it's possible that other brigades might have had Leopard.

(e) Early 1980s: Replace SPz Kz 22-2 with:  
 M577 Command Vehicle CWWG-20

(f) Except for the 56th Brigade, there was no organic Pioneer Company for most of the 1980s. However, it was hoped that a Panzer Pioneer Company (ME CWWG-13) would be present in each 50-series Brigade by 1989. It is not clear if this plan was achieved.



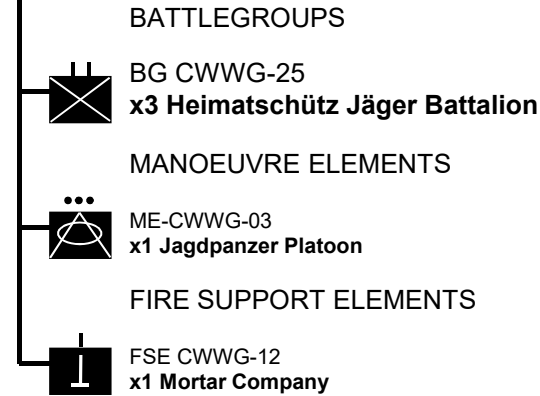
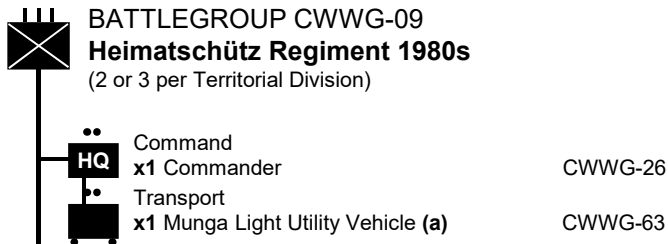
(a) Mid-1980s: Replace Munga with:  
 Itlis Light Utility Vehicle CWWG-22

(b) Territorial Panzer Battalions were generally equipped with M48A2GA2 Patton tanks, though a very few M48A2C Pattons remained in service until 1983.

(c) There was no organic Pioneer Company for most of the 1980s. However, it was hoped that a Panzer Pioneer Company (ME CWWG-13) or Pioneer Company (ME CWWG-14) would be present in each 60-series Brigade by 1989.

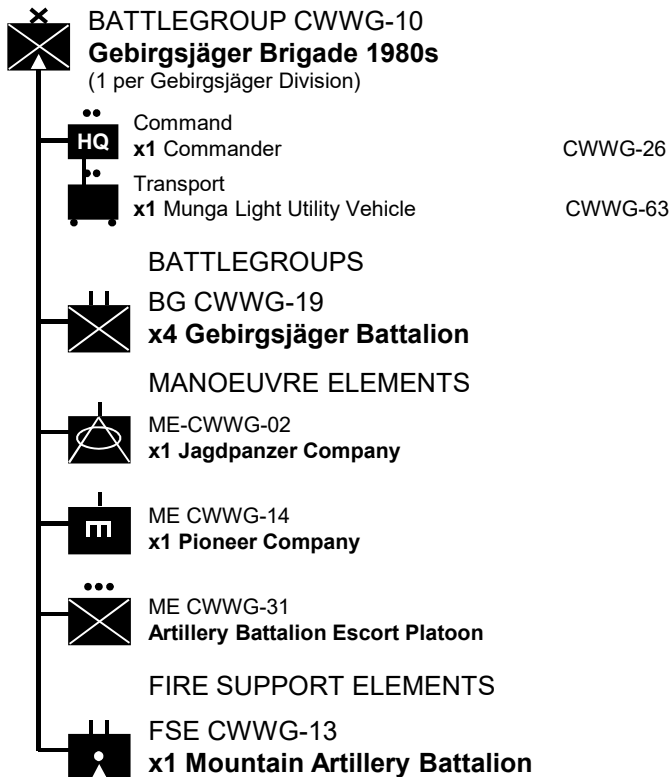






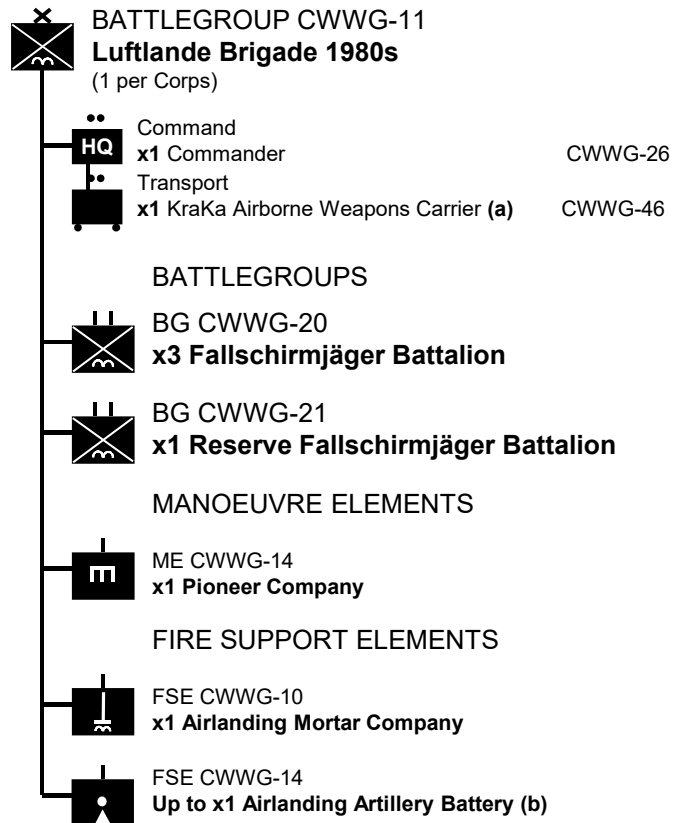
(a) Mid-1980s: Replace Munga with:  
 Iltis Light Utility Vehicle

CWWG-22



(a) Mid-1980s: Replace Munga with:  
 Iltis Light Utility Vehicle

CWWG-22

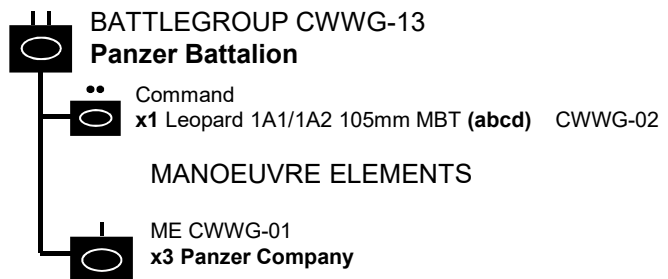


(a) May replace KraKa carrier with:  
 Munga Light Utility Vehicle  
 Iltis Light Utility Vehicle (no MG)

CWWG-63  
 CWWG-22

(b) There was only one permanently-established battery (which was assigned to AMF(L), though other batteries might have been formed from reservists.



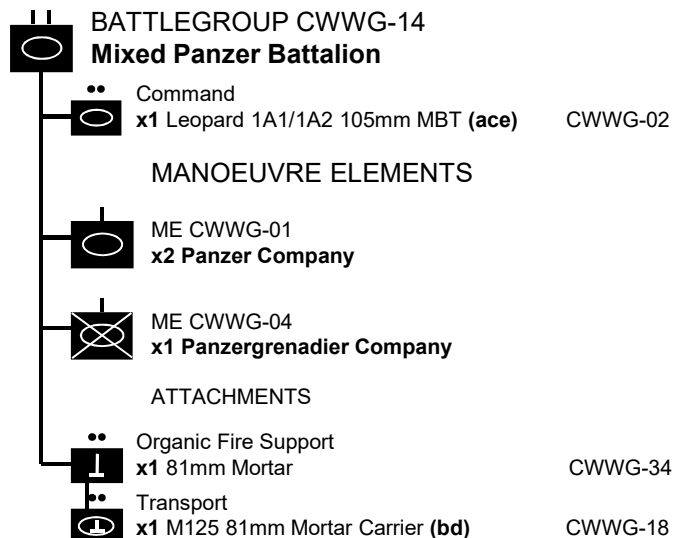


- (a) May replace Leopard 1A1/1A2 with:  
 Leopard 1A3/1A4 105mm Main Battle Tank CWWG-03  
 Leopard 1A1A1/1A2A1 105mm Main Battle Tank CWWG-64  
 Or from 1988 with:  
 Leopard 1A5 105mm Main Battle Tank CWWG-04  
 Or from 1982, in Panzer Brigades (particularly in Panzer Divisions), with:  
 Leopard 2 120mm Main Battle Tank CWWG-05  
 Or from 1986 with:  
 Leopard 2A4 120mm Main Battle Tank CWWG-75

- (b) In Territorial Brigades (except 56th Brigade), replace Leopard 1 with:  
 M48A2GA2 Patton 105mm Medium Tank CWWG-01  
 Or in a very few units in the early 1980s with:  
 M48A2C Patton 90mm Medium Tank CWWG-65

(c) All tanks in the battalion must be of the same type.

(d) For an exact breakdown of tank type by unit and year, refer to Max Wunderlich's superb reference chart at <http://www.fireandfury.com/orbats/BundeswehrTankEquipmentByYear.pdf>



- (a) May replace Leopard 1A1/1A2 with:  
 Leopard 1A3/1A4 105mm Main Battle Tank CWWG-03  
 Leopard 1A1A1/1A2A1 105mm Main Battle Tank CWWG-64  
 Or from 1988 with:  
 Leopard 1A5 105mm Main Battle Tank CWWG-04  
 Or from 1982 (particularly in Panzer Divisions) with:  
 Leopard 2 120mm Main Battle Tank CWWG-05  
 Or from 1986 with:  
 Leopard 2A4 120mm Main Battle Tank CWWG-75

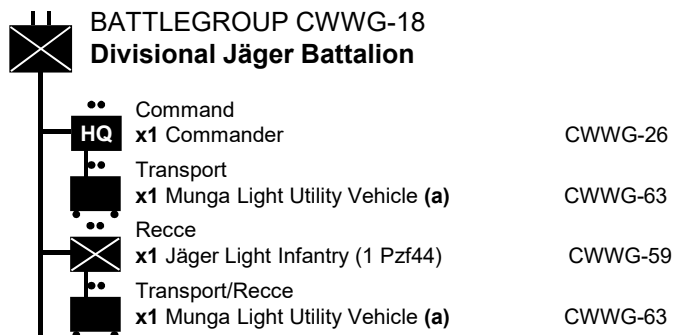
(b) Early 1980s: Some units persisted with obsolete vehicles. May therefore replace M125 with:  
 Schützenpanzer Kurz 51-2 81mm Mortar Carrier CWWG-55

(c) All tanks in the battalion must be of the same type.

(d) Note that West German M113 variants were fitted with the MG3 instead of the M2 .50 Cal.

(e) For an exact breakdown of tank type by unit and year, refer to Max Wunderlich's superb reference chart at <http://www.fireandfury.com/orbats/BundeswehrTankEquipmentByYear.pdf>





#### MANOEUVRE ELEMENTS

**ME CWWG-07**  
**x3 Jäger Company**

#### FIRE SUPPORT ELEMENTS

**FSE CWWG-12**  
**x1 Mortar Company**

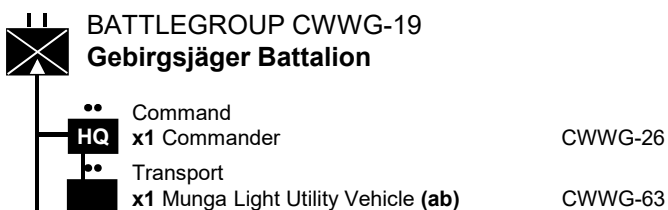
#### ATTACHMENTS

- x3 FK20-2 Twin 20mm Antiaircraft Gun** CWWG-52
- Transport
- x3 Unimog Medium Truck** CWWG-23
- x4 Milan ATGM Team (bc)** CWWG-30
- Transport
- x2 Unimog Medium Truck (b)** CWWG-23

(a) Mid-1980s: Replace Munga light utility vehicle with:  
Iltis Light Utility Vehicle CWWG-22

(b) In 1st Mountain Division: Increase to **x9** Milan ATGM Teams  
and **x4** Unimog Trucks.

(c) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).



#### MANOEUVRE ELEMENTS

**ME CWWG-08**  
**x3 Gebirgsjäger Company**

#### FIRE SUPPORT ELEMENTS

**FSE CWWG-12**  
**x1 Mortar Company**

#### ATTACHMENTS

- x3 FK20-2 Twin 20mm Antiaircraft Gun** CWWG-52
- Transport
- x3 Unimog Medium Truck (ab)** CWWG-23
- Recce
- x3 Gebirgsjäger Light Inf (1 Pzf & 1 CG) (c)** CWWG-61
- Transport/Recce
- x3 Munga Light Utility Vehicle (ab)** CWWG-63

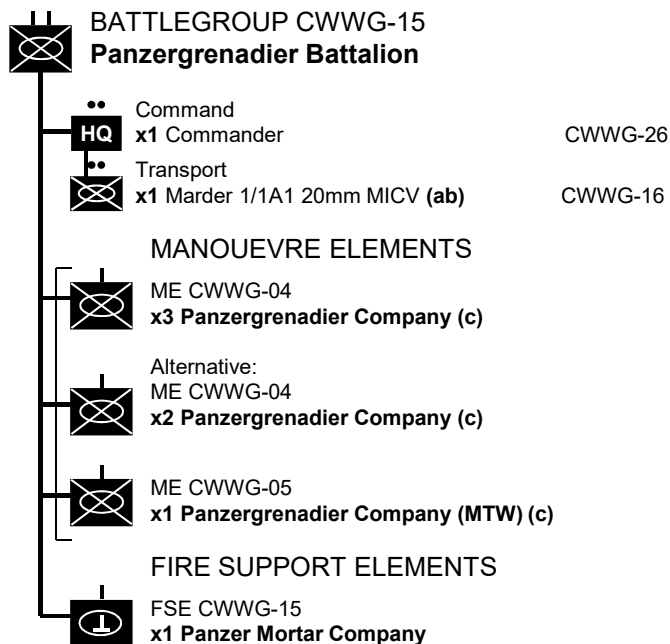
(a) In high mountain warfare operations, delete transport (pack  
mules were used to haul supplies, heavy weapons and equipment).

(b) Mid-1980s: Replace Munga light utility vehicle with:  
Iltis Light Utility Vehicle CWWG-22

(c) Mid-1980s: Replace Carl-Gustav in Recce Platoon with Milan.



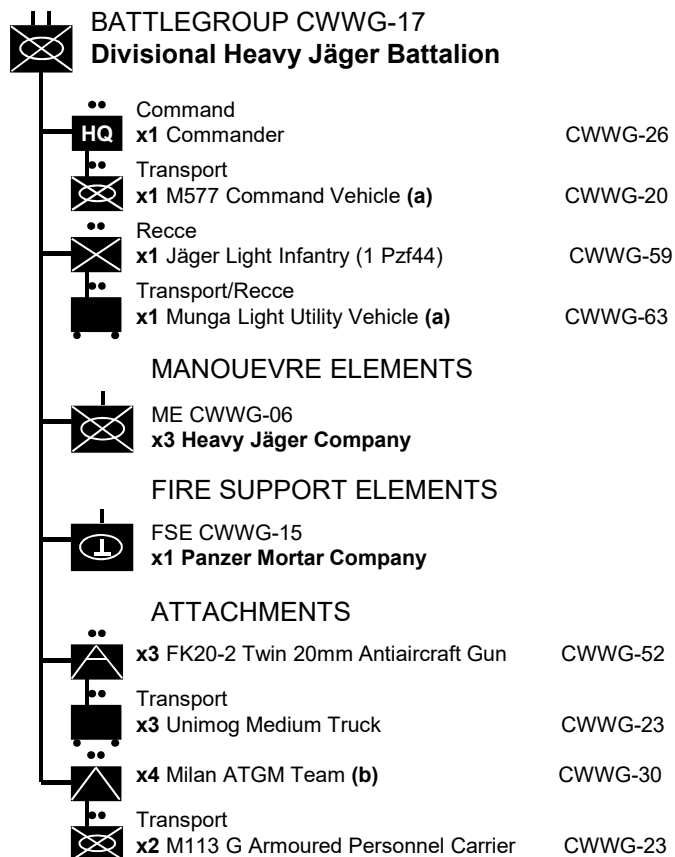




(a) The Marder 1A2 was introduced during the mid-1980s. It makes no difference in game terms, but may matter to you in terms of which models to buy.

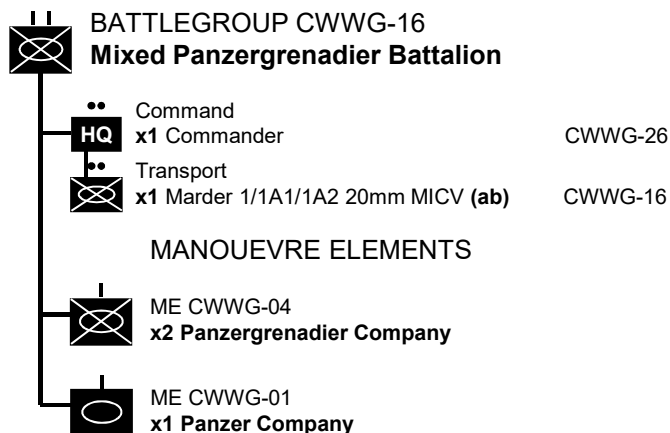
(b) 1989: May replace Marder 1A1/1A2 in some units with:  
Marder 1A3 20mm MICV CWWG-31

(c) Panzergrenadier Battalions of Panzer Brigades had **x3** Marder-equipped Panzergrenadier Companies (ME CWWG-04). Those of the 1st Mountain Division (Panzergrenadier Brigade 22) also had **x3** Marder Companies. However, those of all other Panzergrenadier Brigades had **x2** Marder-equipped companies and **x1** 'MTW' company, equipped with M113G (ME CWWG-05).



(a) Mid-1980s: Replace Munga light utility vehicle with:  
Itlis Light Utility Vehicle CWWG-22

(b) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).



(a) The Marder 1A2 was introduced during the mid-1980s. It makes no difference in game terms, but may matter to you in terms of which models to buy.

(b) 1989: May replace Marder 1A1/1A2 in some units with:  
Marder 1A3 20mm MICV CWWG-31





## BATTLEGROUP CWWG-20 Fallschirmjäger Battalion (c)

Command	
<b>HQ</b>	<b>x1 Commander</b>
	CWWG-26
Transport	
	<b>x1 KraKa Airborne Weapons Carrier (a)</b>
	CWWG-46

### MANOEUVRE ELEMENTS

	ME CWWG-09
	<b>x2 Fallschirmjäger Company</b>

	ME-CWWG-10
	<b>x2 Fallschirmjäger Antitank Company</b>

### ATTACHMENTS

Recce	
	<b>x3 Fallschirmjäger (1 Pzf44) (b)</b>
	CWWG-29

(a) May replace KraKa carrier in the Early 1980s with:  
Munga Light Utility Vehicle CWWG-63  
Or in the Mid-1980s with:  
Ittis Light Utility Vehicle (no MG) CWWG-22

(b) In the late 1980s: The Armbrust ('Crossbow') 67mm LAW was issued to a number of West German units for field trials. However, despite extensive trials, the weapon was never accepted for general issue. Nevertheless, in the spirit of 'what if', those units that did receive Armbrust may equip up to **x1** Infantry unit with Armbrust (see unit card).

(a) A single Fallschirmjäger Battalion (taken on rotation from one of the Luftlande Brigades) would form part of the 'Southern Option' for ACE Mobile Force (Land), which was a brigade-sized formation normally containing a US Parachute Battalion, a Belgian Para-Commando Battalion, a Spanish Parachute Battalion and British Headquarters, Medium Recce and Light Artillery elements.



## BATTLEGROUP CWWG-21 Reserve Fallschirmjäger Battalion

Command	
<b>HQ</b>	<b>x1 Commander</b>
	CWWG-26
Transport	
	<b>x1 KraKa Airborne Weapons Carrier (a)</b>
	CWWG-46

### MANOEUVRE ELEMENTS

	ME CWWG-09
	<b>x3 Fallschirmjäger Company</b>

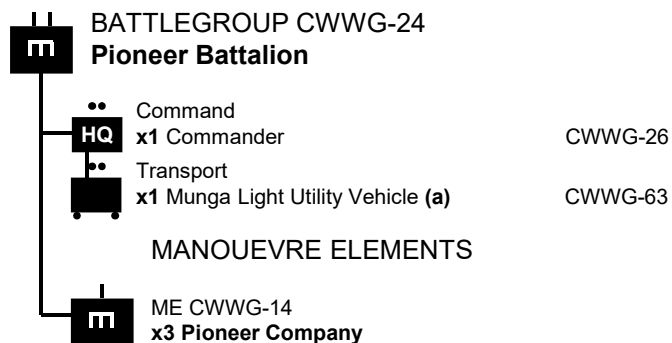
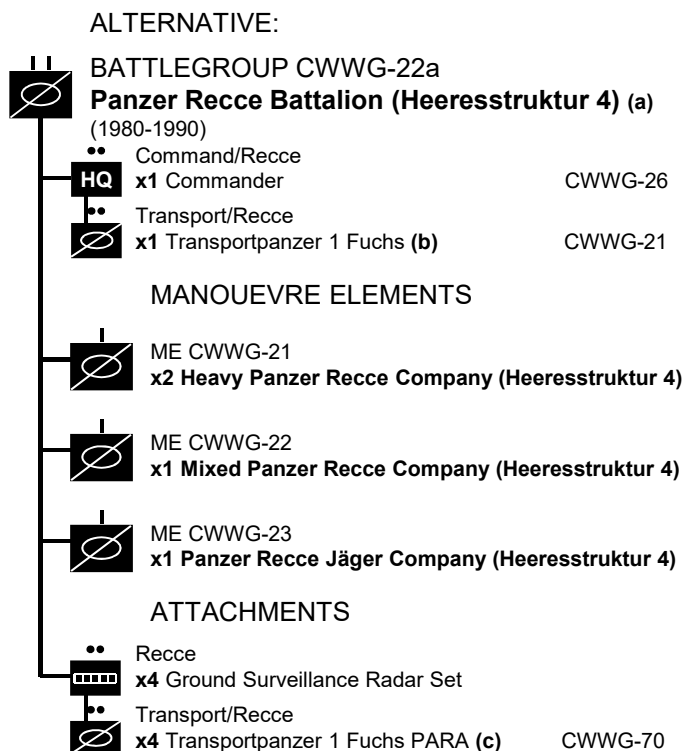
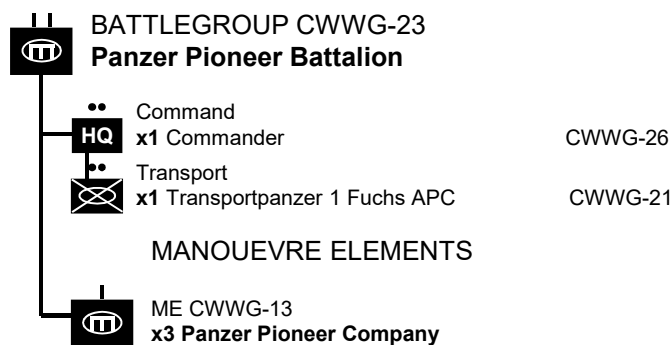
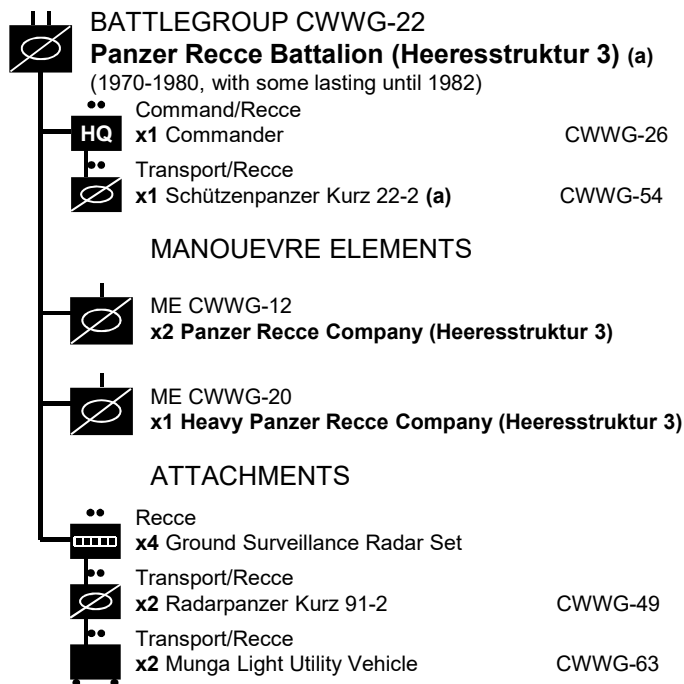
### ATTACHMENTS

Recce	
	<b>x3 Fallschirmjäger (1 Pzf44) (b)</b>
	CWWG-29

(a) May replace KraKa carrier in the Early 1980s with:  
Munga Light Utility Vehicle CWWG-63  
Or in the Mid-1980s with:  
Ittis Light Utility Vehicle (no MG) CWWG-22

(b) In the late 1980s: The Armbrust ('Crossbow') 67mm LAW was issued to a number of West German units for field trials. However, despite extensive trials, the weapon was never accepted for general issue. Nevertheless, in the spirit of 'what if', those units that did receive Armbrust may equip up to **x1** Infantry unit with Armbrust (see unit card).





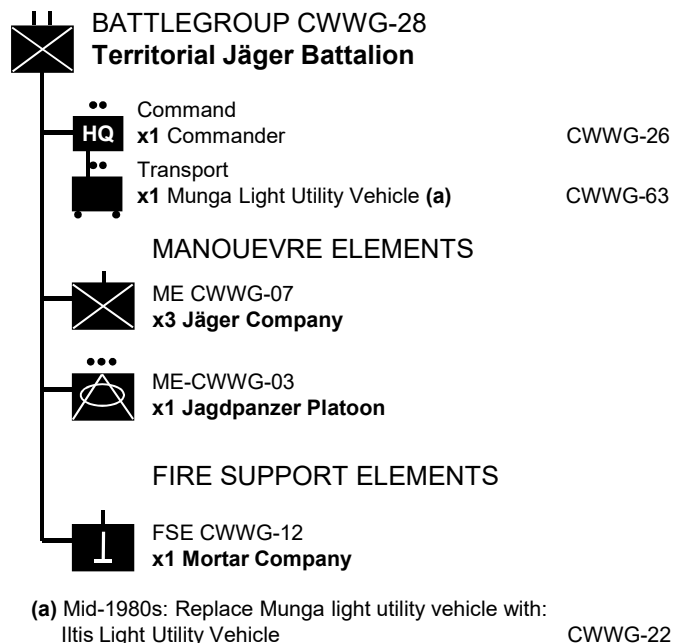
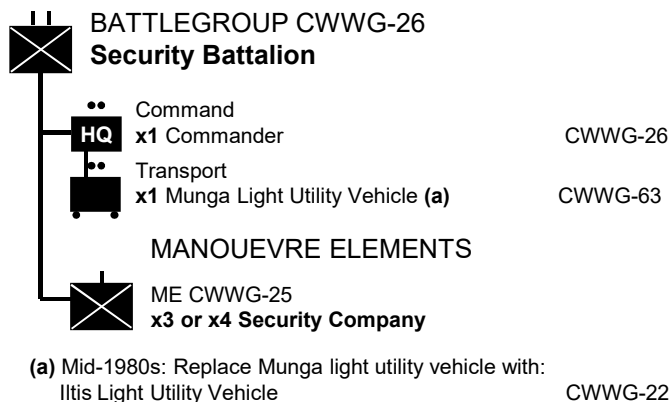
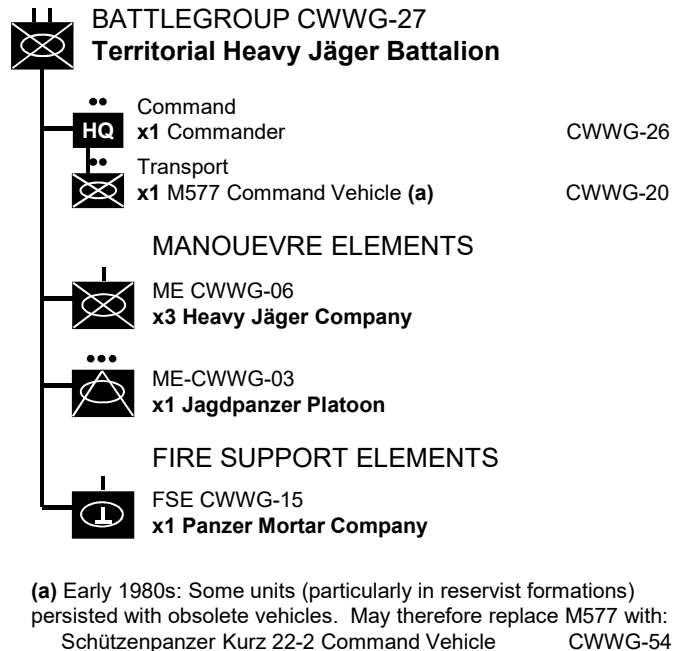
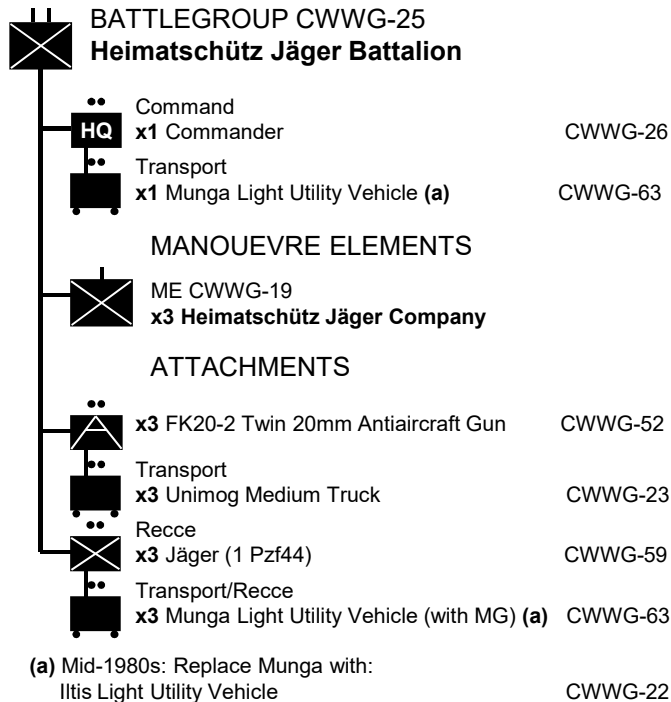
(a) When the *Heeresstruktur 4* reorganisation was introduced in 1980, the Panzer-Reconnaissance Battalions were among the most radically reorganised major combat units in the *Bundeswehr Heer*. As consequence, some battalions continued under the *Heeresstruktur 3* organisation for some time while they waited for new equipment (particularly the brand-new Transportpanzer 1 Fuchs) to enable them to make the necessary changes. Other units meanwhile, made the organisational changes, but soldiered on with obsolete equipment.

(b) Even after reorganisation, some units continued with Schützenpanzer Kurz 22-2 (CWWG-54) until 1982.

(c) Some units were still using Radarpanzer Kurz 91-2 (CWWG-49) and Munga jeeps (CWWG-63) to carry radar sets until 1984.

(a) Mid-1980s: Replace Munga light utility vehicle with:  
 Ilitis Light Utility Vehicle CWWG-22

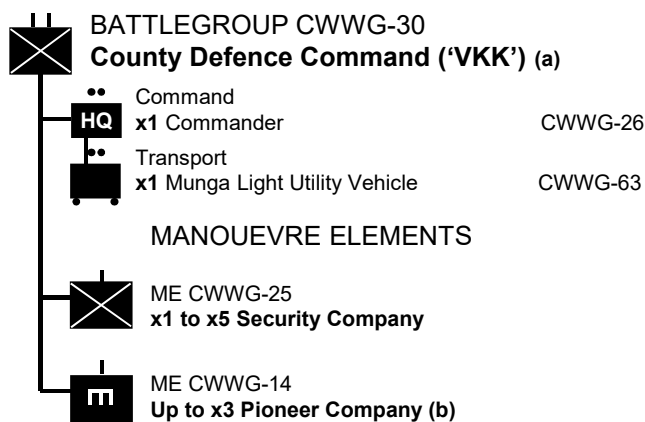






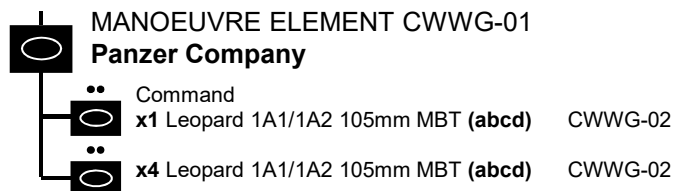
(a) The County Defence Commands (*Verteidigungskreiskommandos* or 'VKK') were roughly battalion-sized units, responsible for static defence within a specific county area, as well as civil defence and liaison with co-located NATO units.

(b) The VBKs varied wildly in strength, though on average they were battalion-sized units of roughly 500 men.



(a) The VKKs varied quite wildly in strength. They typically had a core of *Heimatschutz* Security Companies to provide local defence and support to the civil authorities, and in most cases had a contingent of pioneers.

(b) These Pioneer Companies were actually called '*Wallmeister-Kompanien*', or 'Wall Master Companies' as a historical reference to the days of walled towns and fortifications. As the name suggests, these were responsible for building and maintaining fortifications and obstacles within a given area (e.g. fighting positions, minefields, cratering roads, demolishing bridges, etc). These fortifications and obstacles would then be defended by themselves or other NATO units.

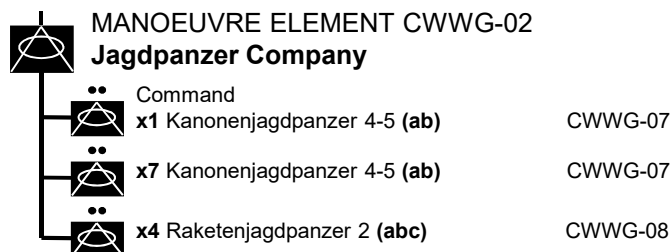


(a) May replace Leopard 1A1/1A2 with:  
 Leopard 1A3/1A4 105mm Main Battle Tank CWWG-03  
 Leopard 1A1A1/1A2A1 105mm Main Battle Tank CWWG-64  
 Or from 1988 with:  
 Leopard 1A5 105mm Main Battle Tank CWWG-04  
 Or from 1982, in Panzer Brigades (particularly in Panzer Divisions), with:  
 Leopard 2 120mm Main Battle Tank CWWG-05  
 Or from 1986 with:  
 Leopard 2A4 120mm Main Battle Tank CWWG-75

(b) In Territorial Brigades (except 56th Brigade), replace Leopard 1 with:  
 M48A2GA2 Patton 105mm Medium Tank CWWG-01  
 Or in a very few units until 1983 with:  
 M48A2C Patton 90mm Medium Tank CWWG-65

(c) All tanks in the battalion must be of the same type.

(d) For an exact breakdown of tank type by unit and year, refer to Max Wunderlich's superb reference chart at <http://www.fireandfury.com/orbats/BundeswehrTankEquipmentByYear.pdf>



(a) Early 1980s: In Panzer Brigades, replace all vehicles with:  
 x1 Command M113 Armoured Personnel Carrier CWWG-17  
 x6 Jaguar 1 HOT ATGM Vehicle (e) CWWG-09

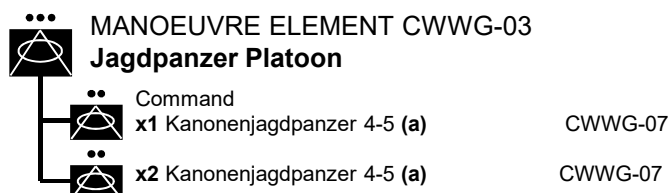
(b) From 1983: In Panzergrenadier Brigades, replace all vehicles with:  
 x1 Command M113 Armoured Personnel Carrier CWWG-17  
 x6 Jaguar 2 TOW ATGM Vehicle (f) CWWG-10

(c) In 1982: Delete all remaining Raketenjagdpanzer 2 (these were converted to Jaguar 1 from 1978 onwards). The remaining Jagdpanzer companies that had not converted to Jaguar 1 or Jaguar 2 therefore soldiered on as gun-only Kanonenjagdpanzer Companies. These were primarily found in reservist brigades.

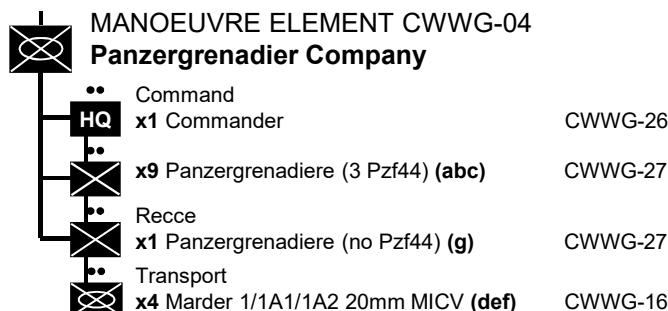
(d) Late 1980s: The last remaining Kanonenjagdpanzer 4-5 were still hanging on with Territorial units and in 1. Gebirgsjäger-Division. However, these were rapidly wearing out and some were replaced with obsolete tanks. May therefore replace Kanonenjagdpanzer 4-5 with:  
 M48A2GA2 Patton 105mm Medium Tank CWWG-01  
 Or in Gebirgsjäger Brigade, with:  
 Leopard 1A4 105mm Main Battle Tank CWWG-03

(e) Late 1980s: May upgrade Jaguar 1 with HOT 2 ATGMs (see card).

(f) Late 1980s: May upgrade Jaguar 2 with TOW 2 ATGMs (see card).



(a) Late 1980s: May replace Kanonenjagdpanzer in some units with:  
M48A2GA2 Patton 105mm Medium Tank CWWG-01



(a) Early 1980s: The Company is equipped with **x1** Milan ATGM. This weapon may be installed as a vehicle weapon on a Marder (see card) or alternatively may be dismounted as an ATGM team, whereupon it replaces one of the Panzergrenadier sections. The reason for this is that the Marder section size was very small; only seven men (later reduced to six), compared to 11 men in an M113G or Jäger section. This meant that once burdened with a Milan plus ammo, the section essentially became a Milan Team. May therefore replace a Panzergrenadier Section with:  
Milan ATGM Team (bd) CWWG-30

(b) Late 1980s: The Milan strength of Panzergrenadier companies was increased to **x3** Milan. As before, these can either be installed on Marders or dismounted as Milan ATGM Teams (CWWG-30), whereupon they will replace Panzergrenadier Sections. (d)

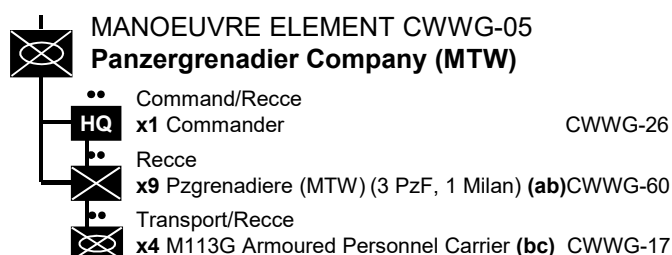
(c) In the late 1980s: The Armbrust ('Crossbow') 67mm LAW was issued to a number of West German units for field trials. However, despite extensive trials, the weapon was never accepted for general issue. Nevertheless, in the spirit of 'what if', those units that did receive Armbrust may equip up to **x3** Infantry units with Armbrust (see unit card).

(d) Milan ATGMs may be fired as a vehicle weapon from Marder MICVs while Milan-equipped troops are mounted. Milan ATGMs may alternatively be installed on the vehicle. Milan-equipped vehicles should be indicated using a marker or similar.

(e) The Marder 1A2 was introduced during the mid-1980s. It makes no difference in game terms, but may matter to you in terms of which models to buy.

(f) 1989: May replace Marder 1A1/1A2 in some units with:  
Marder 1A3 20mm MICV CWWG-31

(g) The Panzergrenadier Company HQ had a Reserve Section. The primary role of this unit was to boost the overall rifle strength of Company, which was low due to the small squad-size within a Marder-equipped company. The Reserve Section's secondary role was that of reconnaissance.



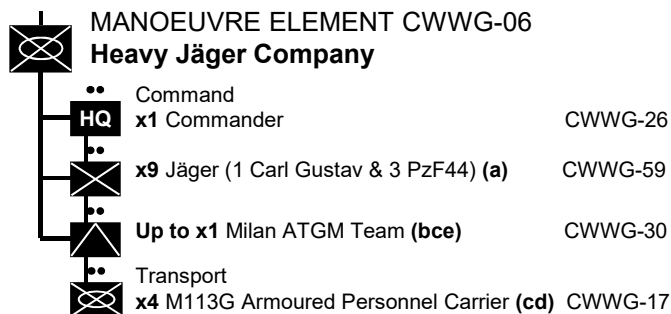
(a) Unlike Marder-equipped Panzergrenadier units, the Panzergrenadier units equipped with the M113G 'Manschattransportwagen' (i.e. 'MTW') and had sufficiently large 11-man sections to comfortably absorb Milan ATGMs within the section without compromising overall 'rifle' strength. The Milan is therefore integral to the Panzergrenadier (MTW) Section and there is no need to replace sections with Milan ATGM Teams when they dismount. In the late 1980s: increase Milan ATGM strength to **x3** Milan per Company. (d)

(b) Milan ATGMs may be fired as a vehicle weapon from their M113G when Milan-equipped troops are mounted (max 1 per vehicle). They may alternatively be installed on the vehicle, to be operated by the vehicle crew once the troops dismount. Milan-equipped M113Gs should be indicated using markers, model Milans or similar.

(c) Note that the M113G had a 7.62mm MG3 instead of the M2 .50 Cal found on most nations' M113s.

(d) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).





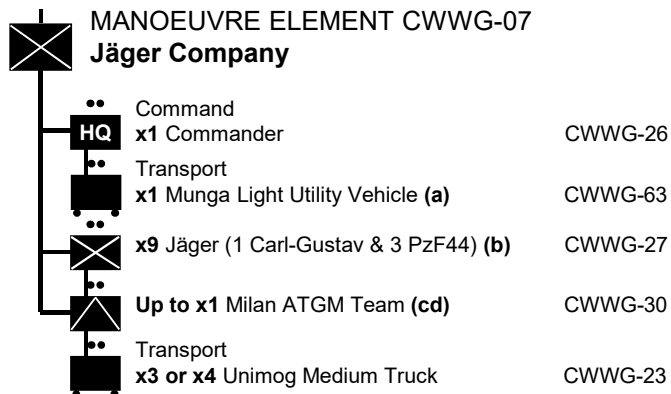
(a) One Squad is armed with Carl Gustav 84mm MAWs, while three have Panzerfaust 44 LAWs and the remainder have nothing.

(b) Milan ATGM Team only found in Territorial Jäger Battalions and not in Divisional Jäger Battalions.

(c) Milan ATGM may be fired from M113G as a vehicle weapon when Milan Team is mounted.

(d) Note that the M113G had an MG3 instead of the M2 .50 Cal normally found on most nations' M113s.

(e) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).

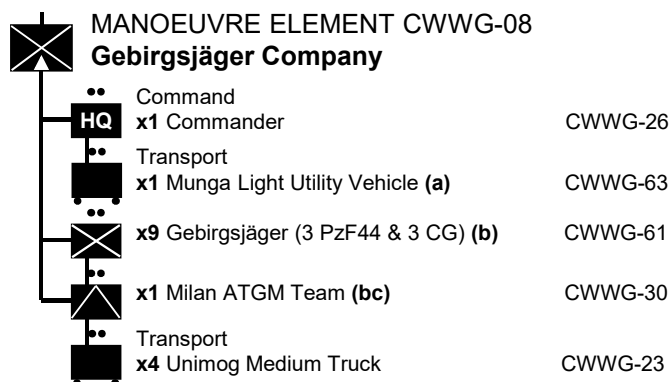


(a) Mid-1980s: Replace Munga with: CWWG-22  
Itlis Light Utility Vehicle

(b) One Squad is armed with Carl Gustav 84mm MAWs, while three have Panzerfaust 44 LAWs and the remainder have nothing.

(c) Milan ATGM Team only found in Territorial Jäger Battalions and not in Divisional Jäger Battalions.

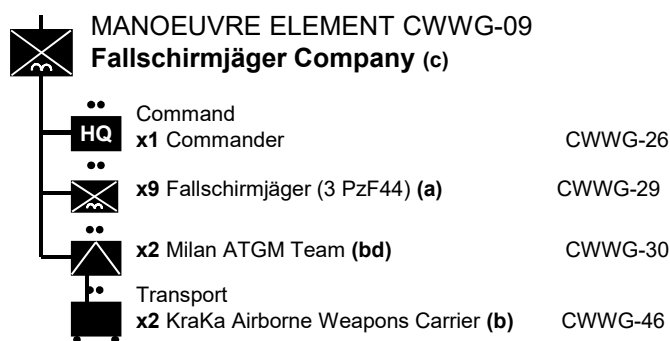
(d) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).



(a) Mid-1980s: Replace Munga with: CWWG-22  
Itlis Light Utility Vehicle

(b) Late-1980s: Reduce Carl-Gustavs to x1 and add additional ATGM teams:  
x2 Milan ATGM Team (c) CWWG-30

(c) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).



(a) In the late 1980s: The Armbrust ('Crossbow') 67mm LAW was issued to a number of West German units for field trials. However, despite extensive trials, the weapon was never accepted for general issue. Nevertheless, in the spirit of 'what if', those units that did receive Armbrust may equip up to x3 Infantry units with Armbrust (see unit card).

(b) Milan ATGMs may be fired from vehicle when mounted.

(c) In a non-airborne mission, the company may be motorised with:  
x4 Unimog Medium Truck CWWG-23

(d) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).



## MANOEUVRE ELEMENT CWWG-12 Panzer Reconnaissance Company (Heeresstruktur 3) (a)

- Command/Recce  
x1 Schützenpanzer Kurz 22-2 (b) CWWG-54
- Recce  
x8 Schützenpanzer Kurz 11-2 (ce) CWWG-53
- Recce  
x3 Leopard 1A1/1A2 105mm MBT (df) CWWG-02

(a) When the *Heeresstruktur 4* reorganisation was introduced in 1980, the Panzer-Reconnaissance Battalions were among the most radically reorganised major combat units in the *Bundeswehr Heer*. As consequence, some battalions continued under the *Heeresstruktur 3* organisation for some time while they waited for new equipment.

(b) May replace Schützenpanzer Kurz 22-2 Command Vehicle with:  
Panzerspähwagen Luchs CWWG-12

(c) Most units had replaced the Schützenpanzer Kurz 11-2 20mm Recce Vehicles by the 1980s with:  
Panzerspähwagen Luchs CWWG-12

(d) May replace Leopard 1A1/1A2 with:  
Leopard 1A3/1A4 105mm Main Battle Tank CWWG-03  
Leopard 1A1A1/1A2A1 105mm Main Battle Tank CWWG-64

(e) There were no permanently-organised Brigade Panzer Recce Platoons in the *Heeresstruktur 3* organisation, which meant that those units still operating under this organisation from 1980 to 1982 would have to detach x6 Spz 11-2 or SpPz Luchs from each Panzer Recce Company to form the new Brigade Recce Companies required under the *Heeresstruktur 4* reorganisation.

(f) For an exact breakdown of tank type by unit and year, refer to Max Wunderlich's superb reference chart at <http://www.fireandfury.com/orbats/BundeswehrTankEquipmentByYear.pdf>

## MANOEUVRE ELEMENT CWWG-10 Fallschirmjäger Antitank Company

- HQ •• Command  
x1 Commander CWWG-26
- Transport  
x1 KraKa Airborne Weapons Carrier (a) CWWG-46
- x4 KraKa TOW Airborne ATGM Vehicle (bd) CWWG-47
- x3 KraKa MK Airborne 20mm AA Vehicle (c) CWWG-14

(a) From 1989: May replace KraKa in some units with:  
Wiesel 1A0 MK 20mm Weapons Carrier (b) CWWG-51

(b) From 1989: May replace KraKa TOW in some units with:  
Wiesel 1A0 TOW ATGM Weapons Carrier CWWG-50

(c) From 1989: May replace KraKa MK in some units with:  
Wiesel 1A0 MK 20mm Weapons Carrier CWWG-51

(d) Late 1980s: May upgrade TOW ATGMs to TOW 2 (see card).

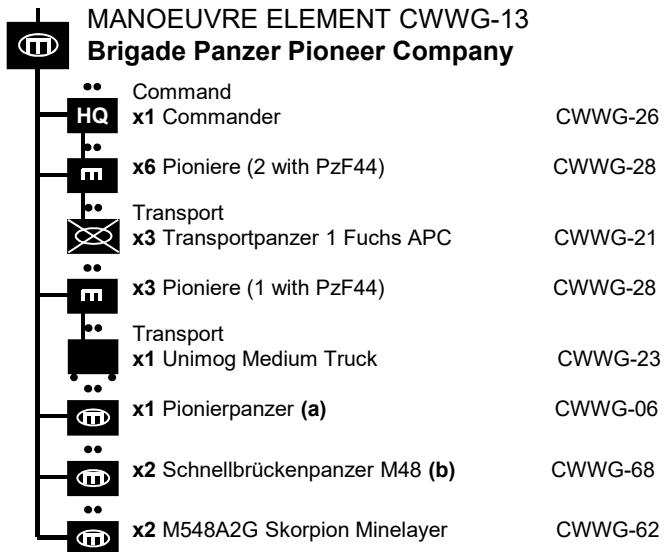
## MANOEUVRE ELEMENT CWWG-11 Brigade Panzer Reconnaissance Platoon (b)

- Command/Recce  
x1 Panzerspähwagen Luchs (a) CWWG-12
- Recce  
x3 Panzerspähwagen Luchs (a) CWWG-12

(a) 1980-82: Some units persisted in using obsolete vehicles. May therefore replace Luchs with:  
Schützenpanzer Kurz 11-2 20mm Recce Vehicle CWWG-53

(b) Note that in peacetime these units formed a part of the divisional recce battalion. Consequently, they are counted twice in some sources, but I have separated them in these TO&Es.

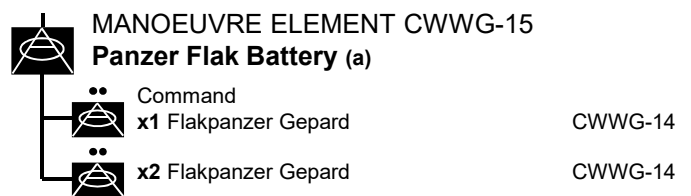




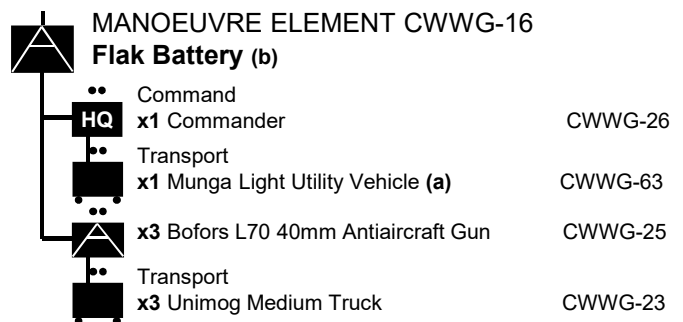
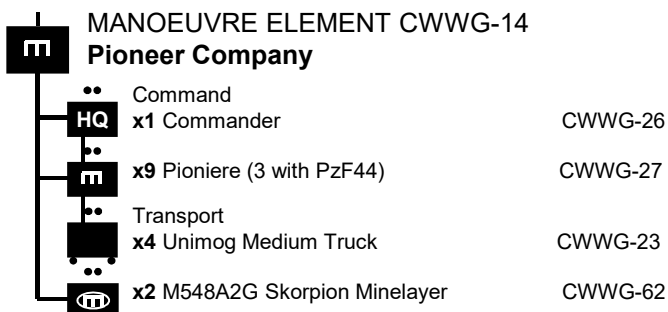
(a) During the early 1980s and in Territorial Brigades until the late 1980s, a few units had still not received Pionierpanzer. May therefore replace in these units with:

Pionierpanzer M48A2C 90mm Dozer Tank use CWWG-65

(b) May replace Schnellbrückenpanzer M48 with:  
Schnellbrückenpanzer Biber CWWG-13



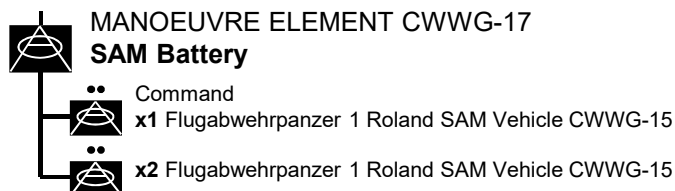
(a) The Battery may alternatively be deployed as **x3** Platoon-sized unit attachments, each of **x1** Flakpanzer Gepard.



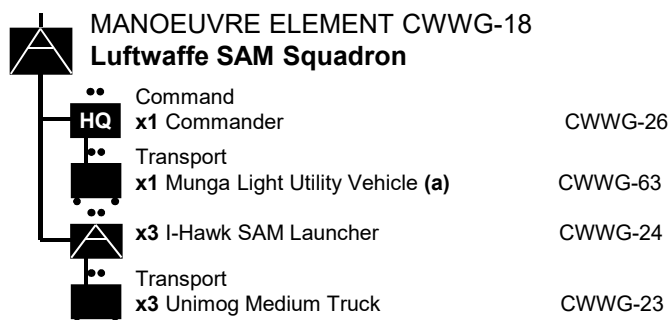
(a) Mid-1980s: Replace Munga with:  
Ilitis Light Utility Vehicle CWWG-22

(b) The Battery may alternatively be deployed as **x3** Platoon-sized unit attachments, each of **x1** Bofors.

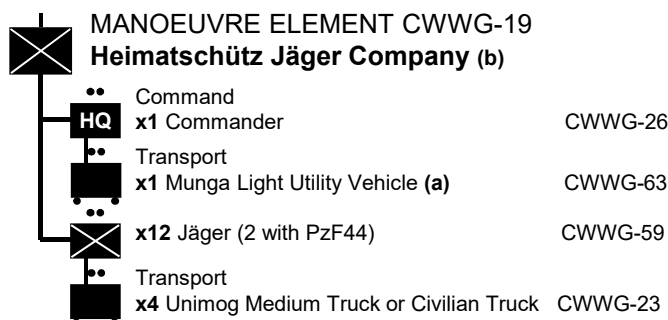




(a) The Battery may alternatively be deployed as x3 Platoon-sized unit attachments, each of x1 Roland.

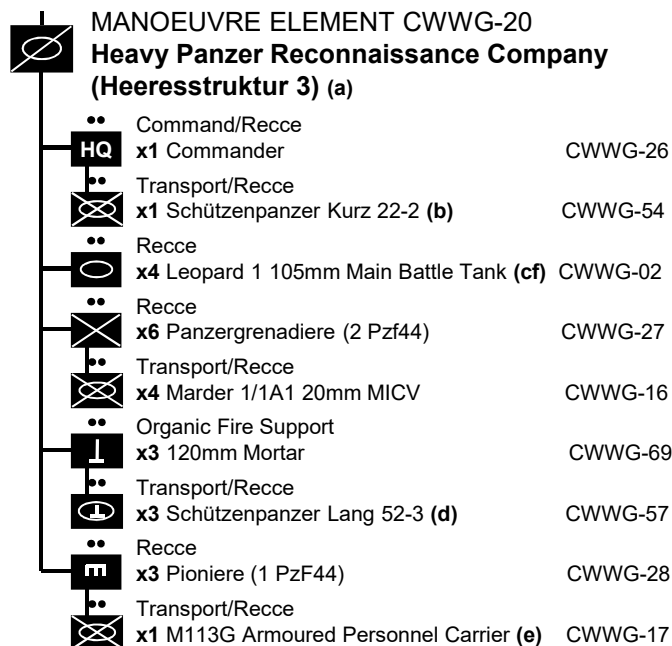


(a) Mid-1980s: Replace Munga with: CWWG-22  
 Iltis Light Utility Vehicle



(a) Mid-1980s: Replace Munga with: CWWG-22  
 Iltis Light Utility Vehicle (no MG)

(b) There was much talk during the 1980s of these territorial reservist troops being issued with very large numbers of effective anti-tank weapons, such as Milan (much discussed in books such as Hackett's 'The Third World War'. However, it is not clear if this plan ever came to fruition.



(a) When the *Heeresstruktur 4* reorganisation was introduced in 1980, the Panzer-Reconnaissance Battalions were among the most radically reorganised major combat units in the *Bundeswehr Heer*. As consequence, some battalions continued under the *Heeresstruktur 3* organisation for some time while they waited for the new equipment specified under *Heeresstruktur 4*.

(b) Schützenpanzer Kurz 22-2 Command Vehicles had been replaced in most units by the 1980s with:  
 Marder 1/1A1 20mm MICV CWWG-16

(c) May replace Leopard 1 with:  
 Leopard 1A3/1A4 105mm Main Battle Tank CWWG-03  
 Leopard 1A1A1/1A2A1 105mm Main Battle Tank CWWG-64

(d) Schützenpanzer Lang 52-3 120mm Mortar Carriers had been replaced in most (possibly all) units by the 1980s with:  
 Panzermörser 120 Mortar Carrier CWWG-19

(e) Note that the M113G had an MG3 instead of a .50 Cal.

(f) For an exact breakdown of tank type by unit and year, refer to Max Wunderlich's superb reference chart at <http://www.fireandfury.com/orbats/BundeswehrTankEquipmentByYear.pdf>



**MANOEUVRE ELEMENT CWWG-21**  
**Heavy Panzer Reconnaissance Company**  
**(Heeresstruktur 4)**

- Command/Recce  
**x1 Leopard 1A1/1A2 105mm MBT (ab)** CWWG-02
- Recce  
**x4 Leopard 1A1/1A2 105mm MBT (ab)** CWWG-02

(a) May replace Leopard 1A1/1A2 with:  
 Leopard 1A3/1A4 105mm Main Battle Tank CWWG-03  
 Leopard 1A1A1/1A2A1 105mm Main Battle Tank CWWG-64  
 Or from 1988 with:  
 Leopard 1A5 105mm Main Battle Tank CWWG-04

(b) For an exact breakdown of tank type by unit and year, refer to  
 Max Wunderlich's superb reference chart at  
<http://www.fireandfury.com/orbats/BundeswehrTankEquipmentByYear.pdf>



**MANOEUVRE ELEMENT CWWG-22**  
**Mixed Panzer Reconnaissance Company**  
**(Heeresstruktur 4)**

- Command/Recce  
**x1 Transportpanzer 1 Fuchs APC (a)** CWWG-21
- Recce  
**x8 Panzerspähwagen Luchs (b)** CWWG-12
- Recce  
**x2 Leopard 1A1/1A2 105mm MBT (cd)** CWWG-02

(a) Some units persisted in using obsolete equipment until 1982. In which case, replace Transportpanzer 1 Fuchs with:  
 Schützenpanzer Kurz 22-2 Command Vehicle CWWG-54

(b) Some units persisted in using obsolete equipment until 1982. In which case, replace Panzerspähwagen Luchs with:  
 Schützenpanzer Kurz 11-2 20mm Recce Vehicle CWWG-53

(c) May replace Leopard 1A1/1A2 with:  
 Leopard 1A3/1A4 105mm Main Battle Tank CWWG-03  
 Leopard 1A1A1/1A2A1 105mm Main Battle Tank CWWG-64  
 Or from 1988 with:  
 Leopard 1A5 105mm Main Battle Tank CWWG-04

(d) For an exact breakdown of tank type by unit and year, refer to  
 Max Wunderlich's superb reference chart at  
<http://www.fireandfury.com/orbats/BundeswehrTankEquipmentByYear.pdf>



**MANOEUVRE ELEMENT CWWG-23**  
**Panzer Reconnaissance Jäger Company**  
**(Heeresstruktur 4)**

- Command/Recce  
**HQ x1 Commander** CWWG-26
- Recce  
**x9 Jäger (No Carl Gustav & 3 PzF44)** CWWG-59
- Recce  
**x1 Milan ATGM Team (ab)** CWWG-30
- Transport/Recce  
**x4 Transportpanzer 1 Fuchs APC (a)** CWWG-21

(a) Milan may be fired from Fuchs APC when mounted.

(b) Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).

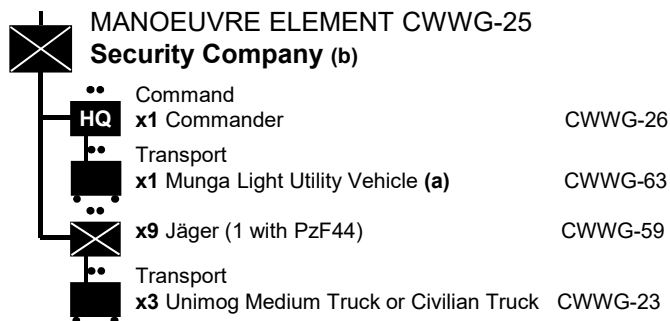
**MANOEUVRE ELEMENT CWWG-24**  
**Light SAM Battery (b)**

- Command  
**HQ x1 Commander** CWWG-26
- Transport  
**x1 Munga Light Utility Vehicle (a)** CWWG-63
- ••  
**x12 Fliegerfaust 1 SAM Team** CWWG-58
- Transport  
**x4 Unimog Medium Truck** CWWG-23

(a) Mid-1980s: Replace Munga with:  
 Itlis Light Utility Vehicle CWWG-22

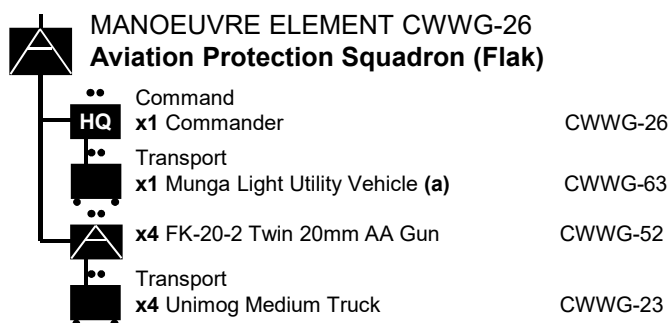
(b) The Battery may alternatively be deployed as **x4** Platoon-sized MEs, each of **x3** Fliegerfaust 1 SAM. Designate **x1** SAM in each Platoon as the Platoon Commander.



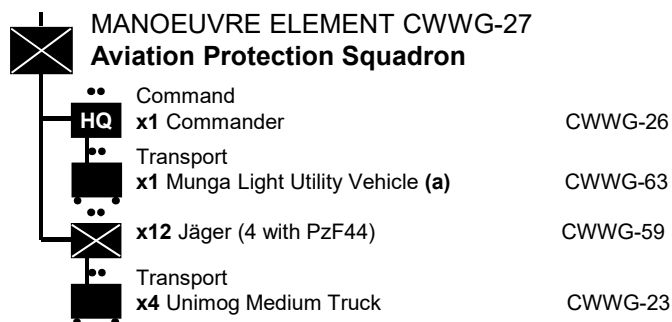
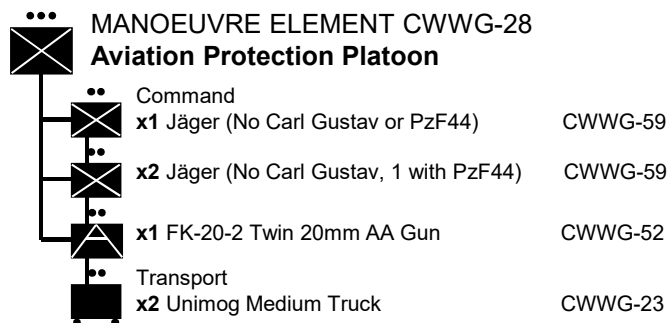


(a) Mid-1980s: Replace Munga with:  
Iltis Light Utility Vehicle (no MG) CWWG-22

(b) Some regular units may add:  
x1 FK-20-2 Twin 20mm Antiaircraft Gun CWWG-52  
x1 Unimog Medium Truck CWWG-23

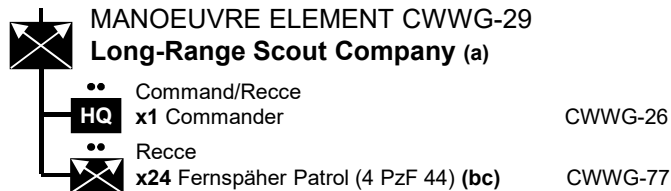


(a) Mid-1980s: Replace Munga with:  
Iltis Light Utility Vehicle (no MG) CWWG-22



(a) Mid-1980s: Replace Munga with:  
Iltis Light Utility Vehicle (no MG) CWWG-22





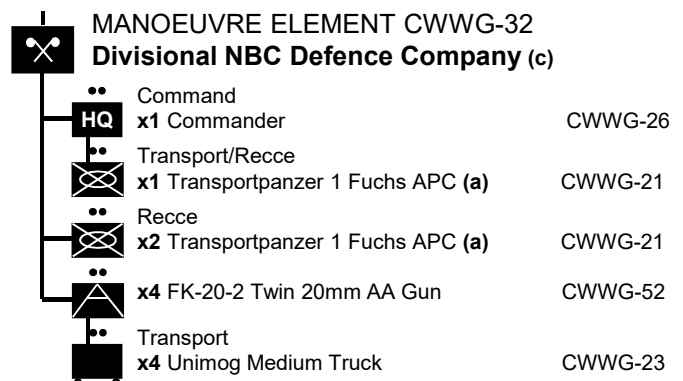
(a) Each of the three regular West German Corps had its own *Fernspähkompanie* (Long-Range Scout Company), which would conduct stay-behind and airborne reconnaissance missions behind enemy lines. Information on their organisation and equipment is scant beyond the basic organisation of four platoons per company.

**(b)** May alternatively be deployed as **x4** separate platoon-sized MEs, each of **x6** Fernspäher Patrols. Designate one Fernspäher Patrol unit in each platoon as the Platoon Commander.

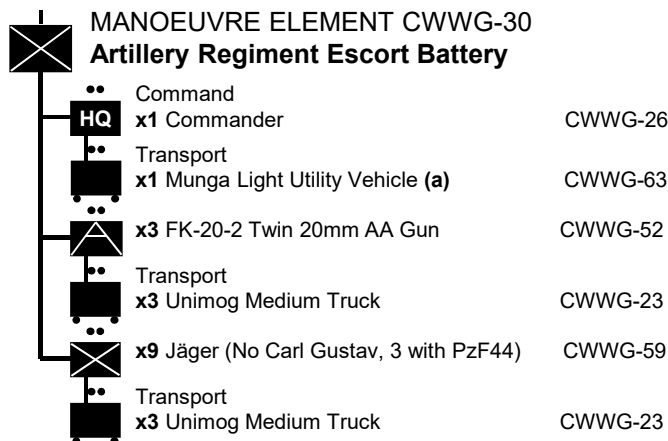
(c) It's reasonably safe to assume that like most country's special forces, the Fernspäher could adapt their organisation and equipment according to the mission. May therefore replace any Fernspäher unit with:

Milan ATGM Team (d)	CWWG-30
81mm Mortar	CWWG-34
MG3 General-Purpose Machine Gun	CWWG-36
Fliegerfaust 1 SAM Team	CWWG-58

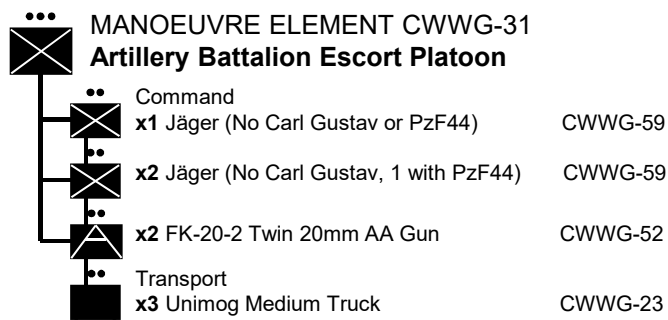
**(d)** Late 1980s: May upgrade Milan ATGMs to Milan 2 (see card).



**(a)** These are specialist NBC reconnaissance and detection variants of the Transportpanzer 1 Fuchs.



**(a)** Mid-1980s: Replace Munga with:  
Iltis Light Utility Vehicle (no MG) CWWG-22



# Luftwaffe Air Support Assets

## 1. Luftwaffe-Division

<b>Aufklärungsgeschwader 51 'Immelmann'</b>	- <b>x2</b> Sqns, each with <b>x9</b> RF-4E Phantom II	use CWWG-41
<b>Jagdbombergeschwader 32 (g) (1984)</b>	- <b>x2</b> Sqns, each with <b>x9</b> F-104G Starfighter	CWWG-45
<b>Jagdbombergeschwader 33 (g) (1985)</b>	- <b>x2</b> Sqns, each with <b>x9</b> F-104G Starfighter	CWWG-45
<b>Jagdbombergeschwader 34 (g) (1987)</b>	- <b>x2</b> Sqns, each with <b>x9</b> F-104G Starfighter	CWWG-45
<b>Jagdbombergeschwader 35</b>	- <b>x2</b> Sqns, each with <b>x9</b> F-4F Phantom II	CWWG-41
<b>Jagdbombergeschwader 39 (a)</b>	- <b>x2</b> Sqns, each with <b>x9</b> Tornado MRCA	CWWG-44
<b>Jagdbombergeschwader 44 (b)</b>	- <b>x2</b> Sqns, each with <b>x9</b> Alpha-Jet	CWWG-42
<b>Jagdbombergeschwader 49 (cj) (1980-83)</b>	- <b>x2</b> Sqns, each with <b>x12</b> G-91R/3 'Gina'	CWWG-43
<b>Flugkörpergeschwader 1</b>	- <b>x18</b> Pershing 1A Nuclear Missiles	

## 2. Luftwaffe-Division (d)

<b>Jagdgeschwader 74 'Molders' (e)</b>	- <b>x2</b> Sqns, each with <b>x9</b> F-4F Phantom II	CWWG-41
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## 3. Luftwaffe-Division

<b>Aufklärungsgeschwader 52 (k)</b>	- <b>x2</b> Sqns, each with <b>x9</b> RF-4E Phantom II	use CWWG-41
<b>Jagdbombergeschwader 31 'Boelcke' (g) (1983)</b>	- <b>x2</b> Sqns, each with <b>x9</b> F-104G Starfighter	CWWG-45
<b>Jagdbombergeschwader 36</b>	- <b>x2</b> Sqns, each with <b>x9</b> F-4F Phantom II	CWWG-41
<b>Jagdbombergeschwader 38 (i)</b>	- <b>x2</b> Sqns, each with <b>x9</b> Tornado MRCA	CWWG-44
<b>Jagdbombergeschwader 41 (jk) (1982)</b>	- <b>x2</b> Sqns, each with <b>x12</b> G-91R/3 'Gina'	CWWG-43
<b>Jagdbombergeschwader 43 (j) (1980)</b>	- <b>x2</b> Sqns, each with <b>x12</b> G-91R/3 'Gina'	CWWG-43
<b>Flugkörpergeschwader 2</b>	- <b>x18</b> Pershing 1A Nuclear Missiles	

## 4. Luftwaffe-Division (d)

<b>Jagdgeschwader 71 'Richthofen' (e)</b>	- <b>x2</b> Sqns, each with <b>x9</b> F-4F Phantom II	CWWG-41
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## Reserves (Late 1980s)

<b>F-104 Kommando (f)</b>	- <b>x2</b> Sqns, each with <b>x9</b> F-104G Starfighter	CWWG-45
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## Helicopters

<b>Hubschraubertransportgeschwader 64 (h)</b>	- <b>x3</b> Sqns, each with <b>x12</b> to <b>x20</b> UH-1D	CWWG-39
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(a) This wing was formed in 1989 to take command of the Luftwaffe portion of the Tri-National Tornado Training Establishment (TTTE) at RAF Cottesmore in the UK.

(b) This wing was formed to take command of the Alpha Jets and crews from the Luftwaffe Operational Conversion Unit at Beja, Portugal, plus reservists. Beja only had **x9** Alpha-Jets, so the remainder would be taken up from reserve stocks (with sufficient time!).

(c) This wing would be formed partly from training units.

(d) 2. and 4. Luftwaffe-Divisionen were primarily responsible for SAM units and radar sites and each only had a single wing of air defence fighters assigned to it.

(e) Air defence fighter wing.

(f) Following the introduction of Tornado, a temporary F-104 wing was formed for reserve pilots and those pilots deemed to be too late in their careers to make the switch to Tornado.

(g) These units converted during the 1980s from F-104G Starfighter to Tornado MRCA (CWWG-44) during the year indicated in parentheses.

(h) HTG 64's helicopters were primarily concerned with the Search and Rescue, Combat Search and Rescue, air ambulance, training and liaison roles and thus will not normally appear in a 'Battlefront' game. Most battlefield helicopter roles were taken by the Heer aviation units.

(i) JBG 38 was formed as a front-line Tornado wing in 1984 from the Luftwaffe's Tornado training unit, when training duties passed to TTTE in the UK.

(j) These units converted from G-91R/3 'Gina' to Alpha-Jet (CWWG-42) during the year indicated in parentheses. Where two years are shown, this is due to a staggered introduction, with one squadron being converted on the first date and the other being converted on the second date.

(k) These squadrons were to be grouped with the *Marineflieger*, Royal Danish Air Force and other NATO allies under AIRBALTAP Command.



## Luftwaffe Ground Defence & SAM Assets

(a) Each Luftwaffe Wing ('Geschwader') possessed a large ground close-defence element, consisting of **x2 to x4** Security Squadrons (organised as ME CWWG-27) and a Flak Battery (organised as ME CWWG-26). Luftwaffe HQs, technical schools, logistics depots, SAM and radar sites and transport wings also had similar defensive organisations.

(b) The Pershing Wings each had **x3** Security Squadrons (ME CWWG-27) and **x2** Flak Batteries (ME CWWG-26).

(c) The five regiments of the Luftwaffe Training Command would provide a further **x15** Flak Batteries (ME CWWG-26).

(d) The Luftwaffe SAM organisation is somewhat difficult to pin down, as they underwent a major reorganisation in 1987 and again in 1989. Some older types were being retired in 1989 to await the arrival of Patriot SAMs in the early 1990s. Essentially there were approximately **x15** to **x20** SAM Battalions, each with **x4** or **x6** SAM Batteries, organised as per ME CWWG-18 with Hawk SAMs. However, a few battalions were still using ancient Nike-Hercules SAMs in fixed locations. The vast majority of these SAMs will never be seen in a 'Battlefront' game, as they were defending fixed locations and spread across the dense 'SAM-Belt' that stretched from north to south across West Germany.

(e) However, **x3** Luftwaffe SAM Battalions were mobile battalions, equipped with the Marder-mounted Roland SAM system, as used by the Heer air defence units, and might therefore be seen in a 'Battlefront' game, supplementing or in lieu of Heer air defence units. These battalions each had **x6** SAM Batteries, organised as per ME CWWG-17.



## Marineflieger Assets

**Marinefliegergeschwader 1 (ab) (1982)**

- **x2** Sqns, each with **x12** F-104G Starfighter

CWWG-45

**Marinefliegergeschwader 2 (ab) (1986)**

- **x2** Sqns, each with **x12** F-104G Starfighter

CWWG-45

(a) The bulk of Marineflieger assets came under the command of NATO's AIRBALTAP Command, along with two Luftwaffe wings (AG 51 and JBG 42), the bulk of the Royal Danish Air Force and elements from other NATO allies such as the UK and USA.

(b) The Marineflieger wings upgraded from F-104G Starfighter to Tornado MRCA during the years shown in parentheses.

(c) The Marineflieger also possessed **x3** SAM Squadrons (Hawk), organised as ME CWWG-18.

(d) The Marineflieger had a similar ground defence structure to the Luftwaffe, with each wing being defended by **x2** Security Companies (as ME CWWG-27), a Light Flak Battery (as ME CWWG-26) and a Bofors Flak Battery (as ME CWWG-16). The Bofors Flak Batteries were replaced by Marder-mounted Roland SAMs from 1988-1990 (as ME CWWG-17).







(a) Early 1980s: Some units persisted in using obsolete vehicles.

May therefore replace OP vehicle with:

Schützenpanzer Kurz 22-2 Command/OP Vehicle CWWG-54

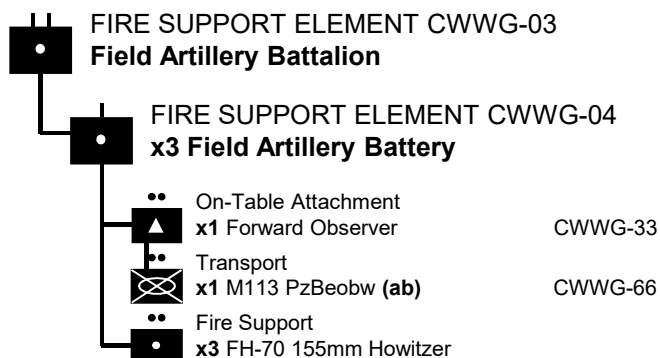
M113G Armoured Personnel Carrier (c) CWWG-17

(b) Late 1980s: Redundant Kanonenjagdpanzers were converted into artillery OP vehicles. Although most of these went to 120mm Panzer Mortar Companies, the odd one was issued to SP artillery.

May therefore replace OP vehicle with:

Beobachtungspanzer CWWG-11

(c) Note that West German M113 variants were fitted with the MG3 instead of the M2 .50 Cal.



(a) Early 1980s: Some units persisted in using obsolete vehicles.

May therefore replace OP vehicle with:

Schützenpanzer Kurz 22-2 Command/OP Vehicle CWWG-54

M113G Armoured Personnel Carrier (b) CWWG-17

(b) Note that West German M113 variants were fitted with the MG3 instead of the M2 .50 Cal.



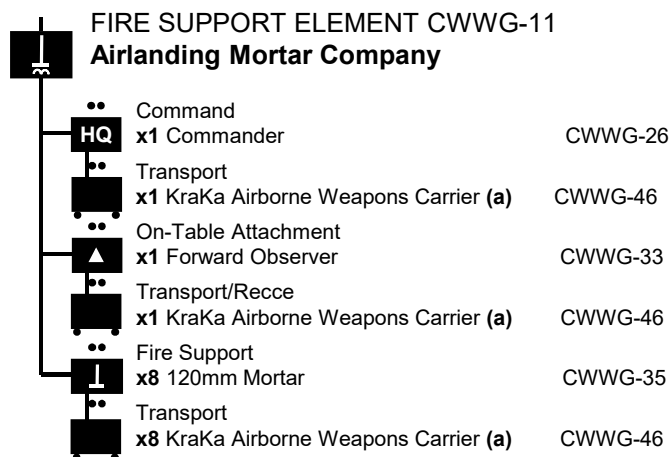
(a) Early 1980s: Some units persisted in using obsolete vehicles.

May therefore replace OP vehicle with:

Schützenpanzer Kurz 22-2 Command/OP Vehicle CWWG-54

M113G Armoured Personnel Carrier (b) CWWG-17

(b) Note that West German M113 variants were fitted with the MG3 instead of the M2 .50 Cal.

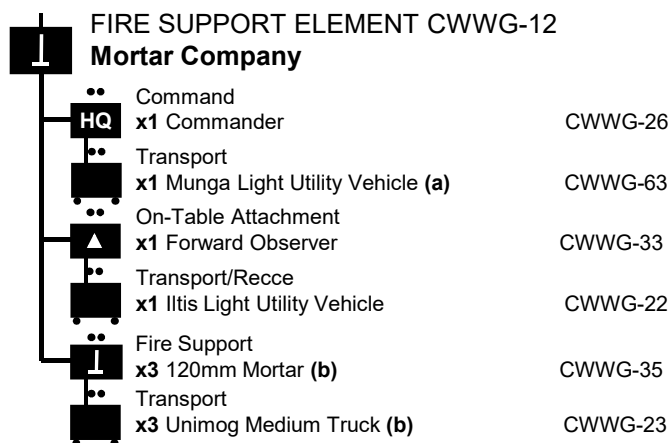


(a) On non-airborne missions, may replace KraKa transports with:

Munga Light Utility Vehicle CWWG-63

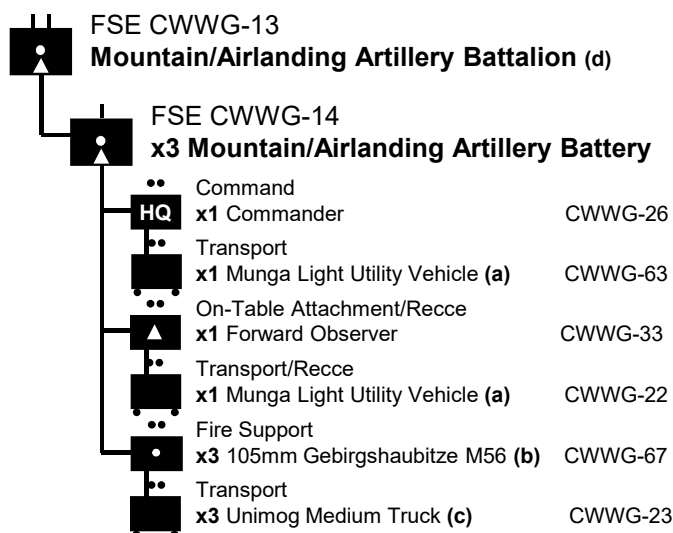
Or from mid-1980s with:

Ilitis Light Utility Vehicle (no MG) CWWG-22



(a) Mid-1980s: Replace Munga with:  
 Iltis Light Utility Vehicle (no MG) CWWG-22

(b) In Heimatschutz Regimental Mortar Companies, increase to **x9**  
 120mm Mortar and **x9** Unimog.

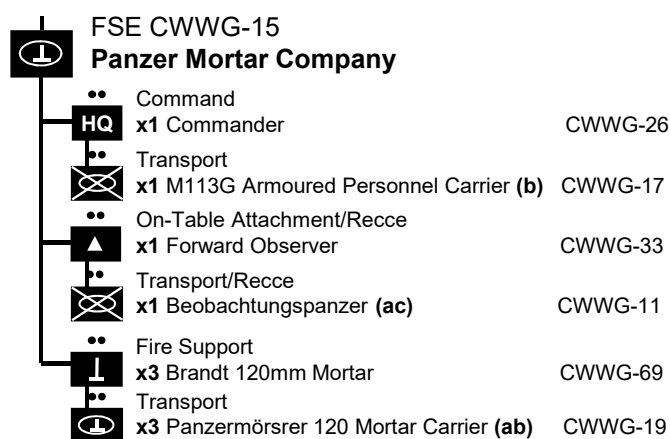


(a) Mid-1980s: Replace Munga with:  
 Iltis Light Utility Vehicle (no MG) CWWG-22

(b) Late-1980s: It was intended that the Mountain Artillery Battalions  
 would convert to FH-70 155mm Howitzers. However, this conversion  
 never took place.

(c) In Mountain Artillery Battalions: may replace Unimog trucks with:  
 Pack Mules

(d) Although the Bundeswehr had only a single Airlanding Battery,  
 the 1st Airlanding Division HQ retained an Airlanding Artillery  
 Regiment HQ in the event of multiple artillery batteries being  
 assigned to a single brigade.



(a) Early 1980s: Some units (particularly in reservist formations)  
 persisted with obsolete vehicles. May therefore replace  
 Panzer Mörsrer 120 with:

Schützenpanzer Lang 52-3 120mm Mortar Carrier CWWG-57  
 And OP/Command vehicles with:  
 Schützenpanzer Kurz 22-2 Command/OP Vehicle CWWG-54

(b) Note that West German M113 variants were fitted with the MG3  
 instead of the M2 .50 Cal.

(c) May replace Beobachtungspanzer with:  
 M113G Armoured Personnel Carrier CWWG-17



### **West German Card List & Model Availability**

(Annotations 'QRF' = QRF Models/LKM Direct, 'SOG' = Skytrex/Old Glory, 'PP' = Peter Pig, 'QC' = Quality Castings, 'FoW' = Flames of War, 'RMM' = Roskopf Miniatur Modelle, AA = Armies Army)

<b>CWWG-01</b> – Mittlerepanzer M48A2GA2 Patton 105mm Medium Tank	QRF, FoW (both Israeli M48 105mm, which are reasonably close)
<b>CWWG-02</b> – Kampfpanzer Leopard 1A1/A2 105mm Main Battle Tank	RMM, QRF, AA (coming soon)
<b>CWWG-03</b> – Kampfpanzer Leopard 1A3/A4 105mm Main Battle Tank	QRF, RMM, FoW
<b>CWWG-04</b> – Kampfpanzer Leopard 1A5 105mm Main Battle Tank	QRF (coming soon)
<b>CWWG-05</b> – Kampfpanzer Leopard 2 120mm Main Battle Tank	QRF, RMM, FoW
<b>CWWG-06</b> – Pionierpanzer Leopard Armoured Engineer Vehicle	
<b>CWWG-07</b> – Kanonenjagdpanzer 4-5 90mm Assault Gun	RMM, QRF
<b>CWWG-08</b> – Raketenjagdpanzer 2 SS-11 ATGM Vehicle	RMM
<b>CWWG-09</b> – Raketenjagdpanzer Jaguar 1 HOT ATGM Vehicle	QRF, RMM, FoW
<b>CWWG-10</b> – Raketenjagdpanzer Jaguar 2 M220 TOW ATGM Vehicle	QRF, FoW
<b>CWWG-11</b> – Beobachtungspanzer Forward Observation Vehicle	RMM, QRF (cut the gun off the Kanonenjagdpanzer)
<b>CWWG-12</b> – Panzerspähwagen Luchs 20mm Armoured Car	QRF, FoW
<b>CWWG-13</b> – Schnellbrückenpanzer Biber Armoured Vehicle-Launched Bridge	RMM
<b>CWWG-14</b> – Flakpanzer Gepard Twin 35mm AA Vehicle	QRF, RMM, FoW
<b>CWWG-15</b> – Flugabwehrpanzer 1 Roland SAM Vehicle	QRF, RMM, FoW
<b>CWWG-16</b> – Schützenpanzer Marder 1/1A1/1A2 20mm Infantry Combat Vehicle	QRF, RMM, FoW
<b>CWWG-17</b> – Mannschaftstransportwagen M113G Armoured Personnel Carrier	QRF, PP, SOG, RMM, FoW (replace .50 Cal with MG3 GPMG)
<b>CWWG-18</b> – Mörserträger M125 81mm Mortar Carrier	QRF, RMM, FoW (replace .50 Cal with MG3 GPMG)
<b>CWWG-19</b> – Panzermörser 120 (M113 120mm Mortar Carrier)	QRF, RMM, FoW (replace .50 Cal with MG3 GPMG)
<b>CWWG-20</b> – Gefechtssandpanzer M577A1G Armoured Command Vehicle	QRF, RMM, PP, SOG, FoW
<b>CWWG-21</b> – Transportpanzer 1 Fuchs Armoured Personnel Carrier	QRF, RMM, FoW
<b>CWWG-22</b> – Iltis Light Utility Vehicle	RMM
<b>CWWG-23</b> – Unimog Medium Truck	PP, RMM, QRF
<b>CWWG-24</b> – I-Hawk SAM	QC
<b>CWWG-25</b> – Bofors L70 40mm Antiaircraft Gun	
<b>CWWG-26</b> – Kommandeur	QRF, RMM, FoW
<b>CWWG-27</b> – Panzergrenadiere (Pzf44 or Armbrust)	QRF, RMM, FoW
<b>CWWG-28</b> – Pioniere (Pzf44)	QRF, RMM, FoW
<b>CWWG-29</b> – Fallschirmjäger (Pzf44 or Armbrust)	QRF, RMM, FoW
<b>CWWG-30</b> – Milan ATGM Team	QRF, FoW
<b>CWWG-31</b> – Schützenpanzer Marder 1A3 20mm Infantry Combat Vehicle	
<b>CWWG-32</b> – Leichtgeschütz M40 106mm Recoilless Rifle	PP, QRF
<b>CWWG-33</b> – Beobachter	
<b>CWWG-34</b> – 81mm Mortar	RMM
<b>CWWG-35</b> – MO-120-RT 120mm Mortar	
<b>CWWG-36</b> – MG3 Light Machine Gun	QRF, RMM, FoW
<b>CWWG-37</b> – Bo-105M VBH Observation/Liaison Helicopter	Italeri, RMM, FoW
<b>CWWG-38</b> – Bo-105P PAH-1 Attack Helicopter	Italeri, RMM, FoW
<b>CWWG-39</b> – UH-1D Iroquois Utility Helicopter	QRF, Revell, RMM
<b>CWWG-40</b> – CH-53G Jolly Green Giant Transport Helicopter	RMM
<b>CWWG-41</b> – F-4F Phantom II Fighter-Bomber	Revell, Tamiya, RMM
<b>CWWG-42</b> – Alpha-Jet Light Ground Attack Aircraft	Italeri, Revell, Heller, RMM
<b>CWWG-43</b> – G-91 R/3 'Gina' ('Schwein') Light Ground Attack Aircraft	Revell, Heller, Tamiya
<b>CWWG-44</b> – Tornado MRCA All-Weather Ground Attack Aircraft	Italeri, Revell
<b>CWWG-45</b> – F-104G Starfighter Fighter-Bomber	Italeri, Revell, Tamiya, RMM

Continued Overleaf





## West German Cards Continued:

<b>CWWG-46</b> – KraKa Airborne Weapons Carrier	RMM
<b>CWWG-47</b> – KraKa TOW Airborne Antitank Vehicle (M220 TOW ATGM)	RMM
<b>CWWG-48</b> – KraKa MK 20mm Airborne 20mm Fire Support/AA Vehicle	RMM
<b>CWWG-49</b> – Radarpanzer Kurz 91-2 Radar Reconnaissance Vehicle	
<b>CWWG-50</b> – Wiesel 1A0 TOW Airborne Antitank Vehicle (M220 TOW ATGM)	
<b>CWWG-51</b> – Wiesel 1A0 MK Airborne 20mm Fire Support/AA Vehicle	
<b>CWWG-52</b> – FK20-2 Twin 20mm Antiaircraft Gun	
<b>CWWG-53</b> – Schützenpanzer Kurz 11-2 20mm Reconnaissance Vehicle	QRF, RMM
<b>CWWG-54</b> – Schützenpanzer Kurz 22-2 Command/OP Vehicle	QRF, RMM
<b>CWWG-55</b> – Schützenpanzer Kurz 51-2 81mm Mortar Carrier	QRF, RMM
<b>CWWG-56</b> – Schützenpanzer Lang 12-3 20mm Armoured Personnel Carrier	QRF, RMM
<b>CWWG-57</b> – Schützenpanzer Lang 52-3 120mm Mortar Carrier	RMM
<b>CWWG-58</b> – Fliegerfaust 1 SAM Team (Redeye)	FoW
<b>CWWG-59</b> – Jäger Light Infantry (Pzf44 & Carl-Gustav)	QRF, RMM, FoW
<b>CWWG-60</b> – Panzergrenadiere (MTW) (Pzf44 & Milan)	QRF, RMM, FoW
<b>CWWG-61</b> – Gebirgsjäger Mountain Infantry (Pzf44 or Armbrust & Carl-Gustav)	
<b>CWWG-62</b> – M548A2G Skorpion Minelaying Vehicle	
<b>CWWG-63</b> – Munga Light Utility Vehicle	RMM
<b>CWWG-64</b> – Kampfpanzer Leopard 1A1A1/1A2A1 105mm Main Battle Tank	FoW, QRF (coming soon)
<b>CWWG-65</b> – Mittlerepanzer M48A2C Patton 90mm Medium Tank	QRF, SOG, FoW, PP
<b>CWWG-66</b> – Panzerbeobachtungswagen M113 Forward Observation Vehicle	
<b>CWWG-67</b> – 105mm Gebirgshaubitze Modell 56	QRF, MJ Figures
<b>CWWG-68</b> – Schnellbrückenpanzer M48 Armoured Vehicle-Launched Bridge	
<b>CWWG-69</b> – Tampella 120mm Mortar	QRF
<b>CWWG-70</b> – Transportpanzer 1 Fuchs PARA Radar Reconnaissance Vehicle	
<b>CWWG-71</b> – Spähpanzer M41 76mm Light Tank	QRF, FoW, RMM
<b>CWWG-72</b> – Mittlerepanzer M47 90mm Medium Tank	QRF, RMM
<b>CWWG-73</b> – Raketenjagdpanzer 1 SS-11 ATGM Vehicle	RMM
<b>CWWG-74</b> – Flakpanzer M42 Twin 40mm Anti-Aircraft Tank	QRF, FoW, RMM
<b>CWWG-75</b> – Kampfpanzer Leopard 2A4 120mm Main Battle Tank	QRF, RMM, FoW
<b>CWWG-76</b> – Fernspäher Long-Range Scout Patrol (Pzf 44)	QRF, RMM, FoW
<b>CWWG-77</b> – Alouette II Observation Helicopter	Heller

